

Mathematical Reviews

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Annual Index — 2001

Subject Index 00–39

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00Bxx Conference proceedings and collections of papers

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00B10 Collections of articles of general interest

(Callender, Craig) *see* **Relativity: history and interpretations**

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(Pier, Jean-Paul) *see* **Development of mathematics, 2001g:01001**

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00B15 Collections of articles of miscellaneous specific content

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Acapulco ★ Primer Congreso Responsables de Proyectos de Investigación en Ciencias Exactas Financiados por el Consejo Nacional de Ciencia y Tecnologia. (Spanish) [First Congress of Directors of Research Projects in the Exact Sciences funded by the National Council of Science and Technology] **2001d:00032**
Adelaide ★ Computational techniques and applications: CTAC97. **2001d:00032**
Advances in dynamic games and applications ★ Advances in dynamic games and applications. **2001b:00014**
Aguascalientes ★ XXX Congreso Nacional de la Sociedad Matemática Mexicana. [XXX National Congress of the Mexican Mathematical Society] **2001d:00036**
Alcalá de Henares ★ Alcalá First International Conference on Mathematical Ecology (AICME).
Algebra and model theory ★ Algebra and model theory. 2. (Russian) **2001d:00025**
Algebraic analysis and related topics ★ Algebraic analysis and related topics. **2001d:00026**
Algebraic combinatorics on convex polytopes ★ Totsu tamentai o meguru kumiawase ron no daisūteki shosō. (Japanese) [Algebraic combinatorics on convex polytopes] **2001m:00016**
Algebraic number theory and related topics ★ Daisūteki seisū ron to sono shūhen. (Japanese) [Algebraic number theory and related topics] **2001b:00016**
Algebraic systems, formal languages and computations ★ Daisū kei, keishiki gengo oyobi keisan riron. [Algebraic systems, formal languages and computations] **2001h:00017**
Algorithms for D-modules ★ D-kagun no arugorizumu. (Japanese) [Algorithms for D-modules] **2001h:00018**
Ambleside ★ Stochastic and chaotic dynamics in The Lakes. **2001e:00026**
Analysis, geometry, number theory: the mathematics of Leon Ehrenpreis ★ Analysis, geometry, number theory: the mathematics of Leon Ehrenpreis. **2001b:00015**
Analysis on infinite-dimensional Lie groups and algebras ★ Analysis on infinite-dimensional Lie groups and algebras. **2001d:00027**
Analytic extension formulas and their applications ★ Analytic extension formulas and their applications. **2001k:00017**
Ann Arbor, MI ★ Council for African American Researchers in the Mathematical Sciences. Vol. III. **2001m:00018**
Antwerp ★ Proceedings of the International Conference on Rational Approximation. ICRA99. **2001d:00045**
Applications of analytic extensions ★ Kaiseki setsuzoku no ōyō. (Japanese) [Applications of analytic extensions] **2001h:00019**
Applications of mathematics in engineering and economics ★ Applications of mathematics in engineering and economics. **2001c:00014**
Approaches to singular analysis ★ Approaches to singular analysis. **2001j:00024**
Ariel ★ {International Conference on Functional Differential Equations}. **2001a:00024**
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Auckland ★ McNabb Symposium. Part I. **2001i:00043**
— ★ McNabb Symposium. Part II.
Bad Herrenalb ★ Evolution equations and their applications in physical and life sciences. **2001i:00033**
Baia Mare ★ {2nd International Conference on Applied Mathematics}.
Baltimore, MD ★ Tenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2001i:00042**
— ★ Council for African American Researchers in the Mathematical Sciences. Vol. III. **2001m:00018**
Barcelona ★ Proceedings of the Eighth Conference of the International Linear Algebra Society.
Beijing ★ Boundary value problems, integral equations and related problems. **2001j:00025**
— ★ First International Congress of Chinese Mathematicians. **2001m:00017**
Beirut ★ The mathematical sciences after the year 2000. **2001g:00019**
Bellman continuum ★ The Bellman continuum.
Berlin ★ Wave splitting and inverse problems. **2001b:00030**
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— ★ Approaches to singular analysis. **2001j:00024**
— ★ Quantum theory centenary. Part II.
Biographies of scientific objects ★ Biographies of scientific objects. **2001b:00016**
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Hoffmann, Karl-Heinz ★ Lectures on applied mathematics. **2001b:00022**
Birzeit ★ Proceedings of the Mathematics Conference. **2001b:00025**
Bologna ★ Seminari di Geometria. 1998–1999. [Geometry Seminars. 1998–1999] **2001d:00049**
Bolzano ★ Shapes of forms. **2001e:00024**
Boolean functions and related problems ★ Boolean functions and related problems. **2001h:00020**
Boulder, CO ★ Differential geometric methods in the control of partial differential equations. **2001g:00016**
Boundary value problems, integral equations and related problems ★ Boundary value problems, integral equations and related problems. **2001j:00025**
Brighton ★ Special issue on constraints for multimedia artistic applications. **2001i:00041**
Brno ★ CDDE 2000 Proceedings.
Brookville, NY ★ {Topology Workshops at the 14th Summer Conference on Topology and its Applications}. **2001i:00044**

Bucharest ★ Proceedings of the Annual Meeting of the Faculty of Mathematics. **2001g:00020**
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— ★ Proceedings of the Annual Meeting of the Faculty of Mathematics.
— ★ {Third Conference of Balkan Society of Geometers}. **2001g:00015**
Budapest ★ EUROFUSE '99. **2001b:00020**
Buxton ★ The First World Congress on Industrial Process Tomography. **2001d:00035**
Cambridge ★ Nonlinear and nonstationary signal processing. **2001m:00024**
— ★ Shape optimization and optimal design. **2001i:00040**
Cambridge, MA ★ Current developments in mathematics, 1998. **2001e:00019**
Catania ★ Commutative algebra, homological algebra and representation theory. **2001d:00030**
Categorical studies in Italy ★ Categorical studies in Italy. **2001d:00028**
Chengde ★ Boundary value problems, integral equations and related problems. **2001j:00025**
Chengdu ★ Differential equations and computational simulations. **2001c:00016**
Chinju ★ Differential equations and applications. **2001a:00026**
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Clifford algebras and their applications ★ {Clifford algebras and their applications}. **2001i:00026**
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— ★ Clifford algebras and their applications in mathematical physics. Vol. 1. **2001d:00029**
Colloquium:
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Differential Equations ★ Seventh International Colloquium on Differential Equations. Vol. I. **2001e:00016**
Finite or Infinite Dimensional Complex Analysis ★ Finite or infinite dimensional complex analysis. **2001b:00021**
Numerical Analysis and Computer Science with Applications ★ Eighth International Colloquium on Numerical Analysis and Computer Science with Applications. **2001e:00017**
Combinatorial and computational algebra ★ Combinatorial and computational algebra. **2001f:00022**
Combinatorics, graph theory, algorithms and applications ★ Combinatorics, graph theory, algorithms and applications. **2001i:00027**
Commutative algebra, homological algebra and representation theory ★ Commutative algebra, homological algebra and representation theory. **2001d:00030**
Complex analysis and differential equations ★ Complex analysis and differential equations. **2001a:00023**
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Complexity theory, real machines, and homotopy ★ {Complexity theory, real machines, and homotopy}. **2001d:00031**
Computational algebra and number theory ★ Computational algebra and number theory. **2001h:00021**
Computational techniques and applications: CTAC97 ★ Computational techniques and applications: CTAC97. **2001d:00032**
Computer algebra in the Spanish educational system ★ {Computer algebra in the Spanish educational system}. (Spanish) **2001k:00018**
Conference:
African American Researchers in the Mathematical Sciences ★ Council for African American Researchers in the Mathematical Sciences. Vol. III. **2001m:00018**
Algebraic Analysis and Related Topics ★ Algebraic analysis and related topics. **2001d:00026**
Analysis, Geometry, Number Theory: the Mathematics of Leon Ehrenpreis ★ Analysis, geometry, number theory: the mathematics of Leon Ehrenpreis. **2001b:00015**
Applications of Computer Algebra ★ {Computer algebra in the Spanish educational system}. (Spanish) **2001k:00018**
Applied Mathematics ★ XIII Conference on Applied Mathematics. **2001c:00015**
— ★ {2nd International Conference on Applied Mathematics}.
— ★ XIV Conference on Applied Mathematics.
Balkan Society of Geometers ★ {Third Conference of Balkan Society of Geometers}. **2001g:00015**
Clifford Algebras and their Applications in Mathematical Physics ★ Clifford algebras and their applications in mathematical physics. Vol. 2. **2001b:00017**
— ★ Clifford algebras and their applications in mathematical physics. Vol. 1. **2001d:00029**
Combinatorial and Computational Algebra ★ Combinatorial and computational algebra. **2001f:00022**
Combinatorics and Physics ★ {Conference on Combinatorics and Physics}. **2001i:00029**
Coming into Being and Passing Away of Scientific Objects ★ Biographies of scientific objects. **2001b:00016**
Commutative Algebra, Homological Algebra and Representation Theory ★ Commutative algebra, homological algebra and representation theory. **2001d:00030**
Computational Physics ★ International Conference on Computational Physics CCP 99. **2001b:00018**
Computational Techniques and Applications ★ Computational techniques and applications: CTAC97. **2001d:00032**
Designs, Codes and Finite Geometries ★ Second Shanghai Conference on Designs, Codes and Finite Geometries. **2001j:00026**
Difference Equations and Computational Simulations ★ Proceedings of the Fourth Mississippi State Conference on Difference Equations and Computational Simulations. **2001d:00044**
Differential Equations and Computational Simulations ★ Differential equations and computational simulations. **2001c:00016**
Differential Equations and Related Topics ★ {International Conference on Differential Equations and Related Topics}. **2001f:00023**
Differential Geometry and its Applications ★ Actas del Séptimo Encuentro de Otoño de Geometría Diferencial y sus Aplicaciones. [Proceedings of the 7th Autumn Conference on Differential Geometry and its Applications] **2001e:00022**
Discrete Analysis and Operations Research ★ Международная Конференция DAOR'2000. [International Conference DAOR'2000] **2001i:00030**
— ★ Международная Конференция DAOR'2000. (Russian) [International Conference DAOR'2000] **2001i:00031**
Formal Power Series and Algebraic Combinatorics ★ Formal power series and algebraic combinatorics. **2001a:00029**
— ★ Formal power series and algebraic combinatorics. **2001f:00025**
Foundations of Computational Mathematics ★ {Complexity theory, real machines, and homotopy}. **2001d:00031**
Fractal ★ Paradigms of complexity. **2001c:00022**
Fractals ★ Fractals and beyond. **2001m:00019**
Functional Differential and Difference Equations ★ Topics in functional differential and difference equations. **2001j:00032**
Functional Differential Equations ★ {International Conference on Functional Differential Equations}. **2001a:00024**
Geometric Combinatorics ★ {Geometric combinatorics}. **2001a:00030**
Geometry and Topology ★ Geometry and topology: Aarhus. **2001c:00019**
Interdisciplinary Tendencies in Mathematics in Mexico at the Dawn of XXIth Century ★ Tendencias interdisciplinarias en las matemáticas. (Spanish) [Interdisciplinary tendencies in mathematics] **2001e:00020**
Magma ★ Computational algebra and number theory. **2001h:00021**
Mathematical Analysis and Applications ★ Differential equations and applications. **2001a:00026**
— ★ Fixed point theory and applications. **2001a:00028**
Mathematical Analysis and its Applications ★ International Conference on Mathematical Analysis and its Applications. **2001i:00032**
Mathematical and Numerical Aspects of Wave Propagation ★ Mathematical and numerical aspects of wave propagation. **2001e:00021**
Mathematical Ecology ★ Alcalá First International Conference on Mathematical Ecology (AICME).
Mathematics ★ XI Jornadas de Matemática. Parte I. [XI Conference of Mathematics. Part I] **2001b:00019**
— ★ Proceedings of the Mathematics Conference. **2001b:00025**
— ★ International Scientific Conference on Mathematics. **2001d:00033**
New Trends in the Fractal Aspects of Complex Systems ★ FACS 2000.
Nuclear and Particle Physics ★ Geometry and quantum physics. **2001c:00018**
Rational Approximation ★ Proceedings of the International Conference on Rational Approximation. ICRA99. **2001d:00045**
Real and Complex Analytic Geometry ★ Seminari di Geometria. 1998–1999. [Geometry Seminars. 1998–1999] **2001d:00049**
Secondary Calculus and Cohomological Physics ★ The International Conference on Secondary Calculus and Cohomological Physics. **2001a:00025**
SIAM Southeastern Atlantic Section ★ SIAM/SEAS special issue.
Soft and Intelligent Computing ★ EUROFUSE '99. **2001b:00020**
Statistical Inference, Combinatorics and Related Areas ★ Statistical inference, combinatorics and related areas. **2001e:00025**
Stochastic and Chaotic Dynamics in The Lakes ★ Stochastic and chaotic dynamics in The Lakes. **2001e:00026**
Stochastic Geometry, Convex Bodies and Empirical Measures ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part I. **2001h:00022**
— ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part II. **2001h:00023**
Student and Scientific-technological Progress ★ Материалы XXX Международной Научной Студенческой Конференции "Студент и Научно-Технический Прогресс". (Russian) [Proceedings of the XXX International Scientific Student Conference "The Student and Scientific-Technological Progress"] **2001f:00029**
— ★ Материалы XXXI Международной Научной Студенческой Конференции "Студент и Научно-Технический Прогресс". (Russian) [Proceedings of the XXXI International Scientific Student Conference "The Student and Scientific-Technological Progress"] **2001f:00030**
Symmetry in Nonlinear Mathematical Physics ★ Symmetry in nonlinear mathematical physics. Parts 1, 2. **2001b:00029**
Tools for Mathematical Modelling ★ Tools for mathematical modelling. **2001f:00031**
— ★ Tools for mathematical modelling. **2001f:00032**
Topology and its Applications ★ {Topology Workshops at the 14th Summer Conference on Topology and its Applications}. **2001i:00044**
Volterra, Vito ★ Convegno Internazionale in Memoria di Vito Volterra. [International Conference in Memory of Vito Volterra] **2001d:00034**
Congress:
Association of Women Mathematicians ★ Труды Международного Конгресса Ассоциации "Женщины-Математики". Вып. 1. (Russian) [Proceedings of the International Congress of the Association of "Women Mathematicians". No. 1]
— ★ Труды Международного Конгресса Ассоциации "Женщины-Математики". Вып. 3. (Russian) [Proceedings of the International Congress of the Association of "Women Mathematicians". No. 3]
Chinese Mathematicians ★ First International Congress of Chinese Mathematicians. **2001m:00017**
Directors of Research Projects in the Exact Sciences funded by the National Council of Science and Technology ★ Primer Congreso Responsables de Proyectos de Investigación en Ciencias Exactas Financiados por el Consejo Nacional de Ciencia y Tecnología. (Spanish) [First Congress of Directors of Research Projects in the Exact Sciences funded by the National Council of Science and Technology]
IMACS ★ Wave splitting and inverse problems. **2001b:00030**
Industrial & Applied Mathematics ★ ICIAM 99. **2001j:00027**
Industrial Process Tomography ★ The First World Congress on Industrial Process Tomography. **2001d:00035**
International Society for Analysis, its Applications and Computation ★ Analytic extension

Congress: (*cont'd.*)
formulas and their applications. **2001k:00017**
International Society for Analysis, its Applications and Computations ★ Reproducing kernels and their applications. **2001d:00046**
ISAAC'97 ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
— ★ Direct and inverse problems of mathematical physics. **2001a:00027**
Mexican Mathematical Society ★ XXX Congreso Nacional de la Sociedad Matemática Mexicana. [XXX National Congress of the Mexican Mathematical Society] **2001d:00036**
— ★ XXXI Congreso Nacional de la Sociedad Matemática Mexicana. [XXXI National Congress of the Mexican Mathematical Society] **2001d:00037**
Contemporary Mathematics ★ Analysis, geometry, number theory: the mathematics of Leon Ehrenpreis. **2001b:00015**
— ★ First Summer School in Analysis and Mathematical Physics. **2001b:00027**
— ★ Geometry and topology: Aarhus. **2001c:00019**
— ★ Crystallographic groups and their generalizations. **2001e:00018**
— ★ Combinatorial and computational algebra. **2001f:00022**
— ★ Differential geometric methods in the control of partial differential equations. **2001g:00016**
— ★ Hilbert's tenth problem: relations with arithmetic and algebraic geometry. **2001g:00018**
— ★ Laminations and foliations in dynamics, geometry and topology. **2001h:00027**
— ★ Council for African American Researchers in the Mathematical Sciences. Vol. III. **2001m:00018**
— ★ Harmonic analysis and boundary value problems. **2001m:00022**
Contemporary problems in mathematical physics ★ Contemporary problems in mathematical physics. **2001d:00038**
Contributions to general algebra ★ Contributions to general algebra. 12. **2001d:00039**
Cotonou ★ Contemporary problems in mathematical physics. **2001d:00038**
Council for African American Researchers in the Mathematical Sciences ★ Council for African American Researchers in the Mathematical Sciences. Vol. III. **2001m:00018**
Crystallographic groups and their generalizations ★ Crystallographic groups and their generalizations. **2001e:00018**
Cuernavaca Morelos ★ First Summer School in Analysis and Mathematical Physics. **2001b:00027**
Cumaná ★ XI Jornadas de Matemática. Parte I. [XI Conference of Mathematics. Part I] **2001b:00019**
Current developments in mathematics ★ Current developments in mathematics, 1998. **2001c:00019**
Differential equations and applications ★ Differential equations and applications. **2001a:00026**
Differential equations and computational simulations ★ Differential equations and computational simulations. **2001c:00016**
Differential geometric methods in the control of partial differential equations ★ Differential geometric methods in the control of partial differential equations. **2001g:00016**
Direct and inverse problems of mathematical physics ★ Direct and inverse problems of mathematical physics. **2001a:00027**
Discrete simulation of fluid dynamics ★ Discrete simulation of fluid dynamics. **2001c:00017**
Dubna ★ Self-similar systems. **2001j:00031**
Edinburgh ★ ICIAM 99. **2001j:00027**
Einstein meets Magritte: an interdisciplinary reflection ★ Einstein meets Magritte: an interdisciplinary reflection. **2001h:00024**
Èrlagol ★ Algebra and model theory. 2. (Russian) **2001d:00025**
EUROFUSE '99 ★ EUROFUSE '99. **2001b:00020**
European women in mathematics ★ European women in mathematics. **2001f:00024**
Evolution equations and their applications in physical and life sciences ★ Evolution equations and their applications in physical and life sciences. **2001i:00033**
FACS ★ FACS 2000.
Fayetteville, AR ★ Harmonic analysis and boundary value problems. **2001m:00022**
Festschrift:
Ehrenpreis, Leon ★ Analysis, geometry, number theory: the mathematics of Leon Ehrenpreis. **2001b:00015**
Essén, Matts R. ★ Complex analysis and differential equations. **2001a:00023**
Hoffmann, Karl-Heinz ★ Lectures on applied mathematics. **2001b:00022**
Lawvere, F. William ★ Categorical studies in Italy. **2001d:00028**
McNabb, Alex ★ McNabb Symposium. Part I. **2001i:00043**
— ★ McNabb Symposium. Part II.
Finite or infinite dimensional complex analysis ★ Finite or infinite dimensional complex analysis. **2001b:00021**
Fixed point theory and applications ★ Fixed point theory and applications. **2001a:00028**
Formal power series and algebraic combinatorics ★ Formal power series and algebraic combinatorics. **2001a:00029**
— ★ Formal power series and algebraic combinatorics. **2001f:00025**
Fractals and beyond ★ Fractals and beyond. **2001m:00019**
Fukuoka ★ Finite or infinite dimensional complex analysis. **2001b:00021**
— ★ Analytic extension formulas and their applications. **2001k:00017**
Functional analysis, differential equations and their applications ★ Функциональный анализ, дифференциальные уравнения и их приложения. (Russian) [Functional analysis, differential equations and their applications] **2001g:00017**
GAFA ★ GAFA 2000. **2001m:00020**
— ★ GAFA 2000. **2001m:00021**
Garching ★ Maximum entropy and Bayesian methods. **2001f:00026**
Genoa ★ Commutative algebra, homological algebra and representation theory. **2001d:00030**
Geometric combinatorics ★ {Geometric combinatorics}. **2001a:00030**
Geometry and quantum physics ★ Geometry and quantum physics. **2001c:00018**
Geometry and topology manifolds ★ {Geometry and topology manifolds}. **2001i:00034**
Geometry and topology: Aarhus ★ Geometry and topology: Aarhus. **2001c:00019**
Ghent ★ Hilbert's tenth problem: relations with arithmetic and algebraic geometry. **2001g:00018**
Glasgow ★ Type theory and term rewriting. **2001a:00035**
Grado ★ Workshop di Teoria della Misura e Analisi Reale. [Workshop on Measure Theory and Real Analysis] **2001f:00033**
Guanajuato ★ IV Escuela de Verano de Geometría y Sistemas Dinámicos. (Spanish) [Fourth Summer School on Geometry and Dynamical Systems] **2001e:00023**
Harmonic analysis and boundary value problems ★ Harmonic analysis and boundary value problems. **2001m:00022**
Herl'any ★ International Scientific Conference on Mathematics. **2001d:00033**
Hermosillo ★ XXXI Congreso Nacional de la Sociedad Matemática Mexicana. [XXXI National Congress of the Mexican Mathematical Society] **2001d:00037**
Hervey Bay ★ New methods in applied and computational mathematics. **2001b:00023**
Hilbert's tenth problem: relations with arithmetic and algebraic geometry ★ Hilbert's tenth problem: relations with arithmetic and algebraic geometry. **2001g:00018**
Hong Kong ★ Combinatorial and computational algebra. **2001f:00022**
ICIAM 99 ★ ICIAM 99. **2001j:00027**
IFIP Conference:
System Modeling and Optimization ★ Shape optimization and optimal design. **2001i:00040**
Igalo ★ XIII Conference on Applied Mathematics. **2001c:00015**
IMACS Symposium:
Mathematical Modelling ★ 3rd IMACS Symposium on Mathematical Modelling—3rd MATHMOD Vienna. **2001h:00026**
Interdisciplinary tendencies in mathematics ★ Tendencias interdisciplinarias en las matemáticas. (Spanish) [Interdisciplinary tendencies in mathematics] **2001e:00020**
Ixtapa ★ Clifford algebras and their applications in mathematical physics. Vol. 2. **2001b:00017**
— ★ {Clifford algebras and their applications}. **2001i:00026**
Ixtapa-Zihuatanejo ★ Clifford algebras and their applications in mathematical physics. Vol. 1. **2001d:00029**
Kanagawa ★ Advances in dynamic games and applications. **2001b:00014**
Kansas City, MO ★ PSA 1998. Part II. **2001h:00029**
Kaohsiung ★ International Conference on Mathematical Analysis and its Applications. **2001i:00032**
Kingston, ON ★ Solitons. **2001d:00050**
Knoxville, TN ★ SIAM/SEAS special issue.
Kolimbary ★ Nonlinear evolution equations and dynamical systems. **2001j:00028**
Kortrijk ★ Crystallographic groups and their generalizations. **2001e:00018**
Kotor ★ {Geometric combinatorics}. **2001a:00030**
Kraków ★ Polynomial automorphisms and related topics.
Krynica ★ {Geometry and topology manifolds}. **2001i:00034**
Kyiv ★ Symmetry in nonlinear mathematical physics. Parts 1, 2. **2001b:00029**
Kyoto ★ Physical combinatorics. **2001a:00033**
— ★ Analytic extension formulas and their applications. **2001k:00017**
Laminations and foliations in dynamics, geometry and topology ★ Laminations and foliations in dynamics, geometry and topology. **2001h:00027**
Lecture Notes in Physics ★ Geometry and quantum physics. **2001c:00018**
Lectures on applied mathematics ★ Lectures on applied mathematics. **2001b:00022**
Lectures:
University of Arkansas Spring Series "Recent Progress in the Study of Harmonic Measure from a Geometric and Analytic Point of View" ★ Harmonic analysis and boundary value problems. **2001m:00022**
Leeds ★ Нелинейные эволюционные уравнения и динамические системы. (Russian) [Nonlinear evolution equations and dynamical systems] **2001d:00042**
— ★ Нелинейные эволюционные уравнения и динамические системы. (Russian) [Nonlinear evolution equations and dynamical systems] **2001d:00043**
— ★ Kowalevski Workshop on Mathematical Methods of Regular Dynamics.
Lisbon ★ Nonlinear analysis and its applications to differential equations. **2001f:00027**
— ★ Topics in functional differential and difference equations. **2001j:00032**
Los Alamos, NM ★ {Conference on Combinatorics and Physics}. **2001i:00029**
Luminy ★ Partial differential equations on multistructures. **2001j:00029**
Maceió ★ FACS 2000.
Marseille ★ Analysis on infinite-dimensional Lie groups and algebras. **2001d:00027**
Materials instabilities ★ Materials instabilities. **2001c:00020**
Mathematical and numerical aspects of wave propagation ★ Mathematical and numerical aspects of wave propagation. **2001e:00021**
Mathematical aspects of complex fluids ★ Fukuzatsu ryūtai no sūri. II. [Mathematical aspects of complex fluids. II] **2001m:00023**
Mathematical aspects of waves with nonlinearity or many degrees of freedom ★ Hisenkei dai jiyūdo no hadō genshō no sūri. (Japanese) [Mathematical aspects of waves with nonlinearity or many degrees of freedom] **2001h:00028**
Mathematical sciences after the year 2000 ★ The mathematical sciences after the year 2000. **2001g:00019**
Mathematical structures and modeling ★ Математические структуры и моделирование. Вып. 3. (Russian) [Mathematical structures and modeling. No. 3] **2001a:00031**
Mathematics ★ Mathematics. **2001d:00040**
Mathematics in the new millennium ★ {Mathematics in the new millennium}.
Maximum entropy and Bayesian methods ★ Maximum entropy and Bayesian methods. **2001f:00026**
Mazara del Vallo ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part I. **2001h:00022**
— ★ III International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". Part II. **2001h:00023**
Meeting:
Applications of Analytic Extensions ★ Analytic extension formulas and their applications. **2001k:00017**
European Women in Mathematics ★ European women in mathematics. **2001f:00024**
Italian Friends Meet Bill Lawvere ★ Categorical studies in Italy. **2001d:00028**
Philosophy of Science Association ★ PSA 1998. Part II. **2001h:00029**

Meeting: (*cont'd.*)
Visions in Mathematics—Towards 2000 ★ GAFA 2000. **2001m:00020**
— ★ GAFA 2000. **2001m:00021**
Mekrijärvi ★ Complex function spaces. **2001i:00028**
Memorial Issue:
Rokhlin, Vladimir Abramovich ★ {Топология и динамика, памяти В. А. Рохлина}. (Russian) [{Topology and dynamics, in memory of V. A. Rokhlin}] **2001h:00033**
Memorial Volume:
Uglov, Denis B. ★ Physical combinatorics. **2001a:00033**
Metadebates on science ★ Metadebates on science. **2001h:00025**
México ★ Tendencias interdisciplinarias en las matemáticas. (Spanish) [Interdisciplinary tendencies in mathematics] **2001e:00020**
Milwaukee, WI ★ Computational algebra and number theory. **2001h:00021**
Mississippi State, MS ★ Proceedings of the Fourth Mississippi State Conference on Difference Equations and Computational Simulations. **2001d:00044**
Montreal, QC ★ Nonlinear dynamics and renormalization group. **2001k:00019**
Moscow ★ Труды Международного Конгресса Ассоциации "Женщины-Математики". Вып. 1. (Russian) [Proceedings of the International Congress of the Association of "Women Mathematicians". No. 1]
— ★ Труды Международного Конгресса Ассоциации "Женщины-Математики". Вып. 3. (Russian) [Proceedings of the International Congress of the Association of "Women Mathematicians". No. 3]
— ★ The International Conference on Secondary Calculus and Cohomological Physics. **2001a:00025**
Munich ★ Lectures on applied mathematics. **2001b:00022**
Nablus ★ Proceedings of the Mathematics Conference. **2001b:00025**
New methods in applied and computational mathematics ★ New methods in applied and computational mathematics. **2001b:00023**
New solution methods and domain decomposition methods in computational mechanics ★ Keisan rikigaku no atarashii kaihō to ryōiki bunkatsuhō. [New solution methods and domain decomposition methods in computational mechanics] **2001d:00041**
Newark, DE ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
— ★ Reproducing kernels and their applications. **2001d:00046**
— ★ Direct and inverse problems of mathematical physics. **2001a:00027**
Nonlinear analysis and its applications to differential equations ★ Nonlinear analysis and its applications to differential equations. **2001f:00027**
Nonlinear analysis, function spaces and applications ★ Nonlinear analysis, function spaces and applications. Vol. 6. **2001c:00021**
Nonlinear and nonstationary signal processing ★ Nonlinear and nonstationary signal processing. **2001m:00024**
Nonlinear dynamics and renormalization group ★ Nonlinear dynamics and renormalization group. **2001k:00019**
Nonlinear evolution equations and dynamical systems ★ Нелинейные эволюционные уравнения и динамические системы. (Russian) [Nonlinear evolution equations and dynamical systems] **2001d:00042**
— ★ Нелинейные эволюционные уравнения и динамические системы. (Russian) [Nonlinear evolution equations and dynamical systems] **2001d:00043**
— ★ Nonlinear evolution equations and dynamical systems. **2001j:00028**
Novi Sad ★ XII Yugoslav Geometric Seminar. **2001c:00024**
— ★ Proceedings of the VIII International Conference "Algebra and Logic". **2001i:00035**
Novosibirsk ★ Материалы XXX Международной Научной Студенческой Конференции "Студент и Научно-Технический Прогресс". (Russian) [Proceedings of the XXX International Scientific Student Conference "The Student and Scientific-Technological Progress"] **2001f:00029**
— ★ Материалы XXXI Международной Научной Студенческой Конференции "Студент и Научно-Технический Прогресс". (Russian) [Proceedings of the XXXI International Scientific Student Conference "The Student and Scientific-Technological Progress"] **2001f:00030**
— ★ Международная Конференция DAOR'2000. [International Conference DAOR'2000] **2001i:00030**
— ★ Международная Конференция DAOR'2000. (Russian) [International Conference DAOR'2000] **2001i:00031**
Omsk ★ Математические структуры и моделирование. Вып. 3. (Russian) [Mathematical structures and modeling. No. 3] **2001a:00031**
Oxford ★ {Complexity theory, real machines, and homotopy}. **2001d:00031**
Palić ★ XIV Conference on Applied Mathematics.
Paradigms of complexity ★ Paradigms of complexity. **2001c:00022**
Park City, UT ★ Selected papers from the Sixth International Meshing Roundtable. Part I. **2001c:00023**
Partial differential equations on multistructures ★ Partial differential equations on multistructures. **2001j:00029**
Perugia ★ Categorical studies in Italy. **2001d:00028**
Peyresq ★ {Peyresq physics. 3}. **2001a:00032**
— ★ Peyresq lectures on nonlinear phenomena. **2001f:00028**
Peyresq lectures on nonlinear phenomena ★ Peyresq lectures on nonlinear phenomena. **2001f:00028**
Peyresq physics ★ {Peyresq physics. 3}. **2001a:00032**
Philadelphia, PA ★ Analysis, geometry, number theory: the mathematics of Leon Ehrenpreis. **2001b:00015**
Physical combinatorics ★ Physical combinatorics. **2001a:00033**
Plovdiv ★ Eighth International Colloquium on Numerical Analysis and Computer Science with Applications. **2001e:00017**
— ★ Seventh International Colloquium on Differential Equations. Vol. I. **2001e:00016**
Polynomial automorphisms and related topics ★ Polynomial automorphisms and related topics.
Poznan ★ Proceedings of the Ninth International Conference "Random Structures and Algorithms". **2001h:00030**
Prague ★ Nonlinear analysis, function spaces and applications. Vol. 6. **2001c:00021**
— ★ Quantum groups and integrable systems. **2001i:00038**

Proceedings:
Colloquium on Differential and Difference Equations ★ CDDE 2000 Proceedings.
Conference in Algebra and Number Theory ★ Proceedings of the 2nd Panhellenic Conference in Algebra and Number Theory. **2001j:00030**
Conference of the International Linear Algebra Society ★ Proceedings of the Eighth Conference of the International Linear Algebra Society.
Conference on Difference Equations and Computational Simulations ★ Proceedings of the Fourth Mississippi State Conference on Difference Equations and Computational Simulations. **2001d:00044**
Conference on Differential Geometry and its Applications ★ Actas del Séptimo Encuentro de Otoño de Geometría Diferencial y sus Aplicaciones. [Proceedings of the 7th Autumn Conference on Differential Geometry and its Applications] **2001e:00022**
Conference on Rational Approximation ★ Proceedings of the International Conference on Rational Approximation. ICRA99. **2001d:00045**
Conference "Algebra and Logic" ★ Proceedings of the VIII International Conference "Algebra and Logic". **2001i:00035**
Conference "Random Structures and Algorithms" ★ Proceedings of the Ninth International Conference "Random Structures and Algorithms". **2001h:00030**
Conference "The Student and Scientific-technological Progress" ★ Материалы XXX Международной Научной Студенческой Конференции "Студент и Научно-Технический Прогресс". (Russian) [Proceedings of the XXX International Scientific Student Conference "The Student and Scientific-Technological Progress"] **2001f:00029**
— ★ Материалы XXXI Международной Научной Студенческой Конференции "Студент и Научно-Технический Прогресс". (Russian) [Proceedings of the XXXI International Scientific Student Conference "The Student and Scientific-Technological Progress"] **2001f:00030**
Congress of the Association of Women Mathematicians ★ Труды Международного Конгресса Ассоциации "Женщины-Математики". Вып. 3. (Russian) [Proceedings of the International Congress of the Association of "Women Mathematicians". No. 3]
Congress of the Association of Women Mathematicians, International ★ Труды Международного Конгресса Ассоциации "Женщины-Математики". Вып. 1. (Russian) [Proceedings of the International Congress of the Association of "Women Mathematicians". No. 1]
Katachi U Symmetry Symposium ★ Proceedings of the 2nd International Katachi U Symmetry Symposium, Part 1. **2001b:00024**
— ★ Proceedings of the 2nd International Katachi U Symmetry Symposium. Part 2. **2001i:00036**
— ★ Proceedings of the 2nd International Katachi U Symmetry Symposium. Part 3. **2001i:00037**
Mathematics Conference ★ Proceedings of the Mathematics Conference. **2001b:00025**
Meeting of the Faculty of Mathematics ★ Proceedings of the Annual Meeting of the Faculty of Mathematics. **2001g:00020**
— ★ Proceedings of the Annual Meeting of the Faculty of Mathematics. **2001g:00021**
— ★ Proceedings of the Annual Meeting of the Faculty of Mathematics.
School on Probability Theory and Mathematical Statistics ★ Proceedings of the 9th International Summer School on Probability Theory and Mathematical Statistics. **2001g:00022**
School "Geometry and Physics" ★ The Proceedings of the 19th Winter School "Geometry and Physics". **2001b:00026**
— ★ Proceedings of the 20th Winter School "Geometry and Physics". **2001k:00020**
Symposium in Analysis ★ Proceedings of the Third Sino-Philippine Symposium in Analysis.
Progress in Mathematics ★ Physical combinatorics. **2001a:00033**
PSA ★ PSA 1998. Part II. **2001h:00029**
Puebla ★ Функциональный анализ, дифференциальные уравнения и их приложения. (Russian) [Functional analysis, differential equations and their applications] **2001g:00017**
Pusan ★ {International Conference on Differential Equations and Related Topics}. **2001f:00023**
Pushchino ★ Труды Международного Конгресса Ассоциации "Женщины-Математики". Вып. 1. (Russian) [Proceedings of the International Congress of the Association of "Women Mathematicians". No. 1]
— ★ Труды Международного Конгресса Ассоциации "Женщины-Математики". Вып. 3. (Russian) [Proceedings of the International Congress of the Association of "Women Mathematicians". No. 3]
Quantum groups and integrable systems ★ Quantum groups and integrable systems. **2001i:00038**
Quantum theory centenary ★ Quantum theory centenary. Part II.
Quezon City ★ Proceedings of the Third Sino-Philippine Symposium in Analysis.
Reaction-diffusion systems: experiments and theoretical models in biology and chemistry ★ Hannō kakusan kei: seibutsu kagaku ni okeru genshō to moderu. (Japanese) [Reaction-diffusion systems: experiments and theoretical models in biology and chemistry] **2001h:00031**
Recent developments in complex analysis and computer algebra ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
Recent topics on discrete integrable systems ★ Lisan kasekibun kei ni kan suru saikin no wadai. (Japanese) [Recent topics on discrete integrable systems] **2001h:00032**
Relevance and feasibility of mathematical analysis on the computer ★ Sūgaku kaiseki no riron teki tenkai no keisanki ue de no suikō kanōsei. [Relevance and feasibility of mathematical analysis on the computer] **2001i:00039**
Representation theory of groups and rings and non-commutative harmonic analysis ★ Gun to kan no hyōgen ron oyobi hikakan chōwa kaiseki. (Japanese) [Representation theory of groups and rings and non-commutative harmonic analysis] **2001m:00025**
Reproducing kernels and their applications ★ Reproducing kernels and their applications. **2001d:00046**
Research on nonlinear analysis and convex analysis ★ Hisenkei kaisekigaku to totsu kaisekigaku no kenkyū. [Research on nonlinear analysis and convex analysis] **2001d:00047**
Research on the theory and applications of computer algebra ★ Sūshiki shori ni okeru riron to ōyō no kenkyū. (Japanese) [Research on the theory and applications of computer

algebra] **2001d:00048**
Rome ★ Convegno Internazionale in Memoria di Vito Volterra. [International Conference in Memory of Vito Volterra] **2001d:00034**
— ★ Commutative algebra, homological algebra and representation theory. **2001d:00030**
Saarbrücken ★ Second Workshop on Algorithm Engineering. **2001g:00024**
San Francisco, CA ★ Ninth Annual ACM-SIAM Symposium on Discrete Algorithms. **2001d:00052**
San Lorenzo de El Escorial ★ {Computer algebra in the Spanish educational system}. (Spanish) **2001k:00018**
Santa Fe, NM ★ The Bellman continuum.
Santiago de Compostela ★ Mathematical and numerical aspects of wave propagation. **2001e:00021**
Schladming ★ Geometry and quantum physics. **2001c:00018**
School:
Analysis and Mathematical Physics ★ First Summer School in Analysis and Mathematical Physics. **2001b:00027**
Applications of Mathematics in Engineering and Economics ★ Applications of mathematics in engineering and economics. **2001c:00014**
Geometry and Dynamical Systems ★ IV Escuela de Verano de Geometría y Sistemas Dinámicos. (Spanish) [Fourth Summer School on Geometry and Dynamical Systems] **2001e:00023**
Geometry and Physics ★ The Proceedings of the 19th Winter School "Geometry and Physics". **2001b:00026**
Intermediate Problems of Model Theory and of Universal Algebra ★ Algebra and model theory. 2. (Russian) **2001d:00025**
Materials Instabilities ★ Materials instabilities. **2001c:00020**
Nonlinear Analysis and Differential Equations ★ Nonlinear analysis and its applications to differential equations. **2001f:00027**
Nonlinear Analysis, Function Spaces and Applications ★ Nonlinear analysis, function spaces and applications. Vol. 6. **2001c:00021**
Nonlinear Phenomena ★ Peyresq lectures on nonlinear phenomena. **2001f:00028**
Philosophy and Artificial Intelligence: the Topic of Form ★ Shapes of forms. **2001e:00024**
Type Theory and Term Rewriting ★ Type theory and term rewriting. **2001a:00035**
Selected papers from the Sixth International Meshing Roundtable ★ Selected papers from the Sixth International Meshing Roundtable. Part I. **2001c:00023**
Self-similar systems ★ Self-similar systems. **2001j:00031**
Seminar:
Bourbaki ★ Séminaire Bourbaki. Vol. 1998/99. (French) [Bourbaki Seminar. Vol. 1998/99] **2001b:00028**
Current Developments in Mathematics ★ Current developments in mathematics, 1998. **2001e:00019**
Geometric ★ XII Yugoslav Geometric Seminar. **2001c:00024**
Geometry ★ Seminari di Geometria. 1998–1999. [Geometry Seminars. 1998–1999] **2001d:00049**
Methods of Applied Mathematics and Information Technologies in Multidisciplinary Investigations and Projects ★ Математические структуры и моделирование. Вып. 3. (Russian) [Mathematical structures and modeling. No. 3] **2001a:00031**
Seoul ★ {Mathematics in the new millennium}.
Session:
Asymptotics and Homogenization ★ Direct and inverse problems of mathematical physics. **2001a:00027**
Complex and Numerical Analysis ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
Reproducing Kernels and their Applications ★ Reproducing kernels and their applications. **2001d:00046**
Use of Symbolic Computation in Mathematics Education ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
Value Distribution Theory and Complex Domains ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
Wave Field Decomposition and Invariant Imbedding Methods in Direct and Inverse Scattering ★ Wave splitting and inverse problems. **2001b:00030**
Wave Phenomena and Related Topics ★ Direct and inverse problems of mathematical physics. **2001a:00027**
Shanghai ★ Second Shanghai Conference on Designs, Codes and Finite Geometries. **2001j:00026**
Shape optimization and optimal design ★ Shape optimization and optimal design. **2001i:00040**
Shapes of forms ★ Shapes of forms. **2001e:00024**
Singapore ★ Paradigms of complexity. **2001c:00022**
Solitons ★ Solitons. **2001d:00050**
Sozopol ★ Applications of mathematics in engineering and economics. **2001c:00014**
— ★ Proceedings of the 9th International Summer School on Probability Theory and Mathematical Statistics. **2001g:00022**
Special Issue:
Computational mathematics and applied software ★ Special issue on computational mathematics and applied software. (Chinese) **2001d:00051**
Constraints for multimedia artistic applications ★ Special issue on constraints for multimedia artistic applications. **2001i:00041**
SIAM/SEAS ★ SIAM/SEAS special issue.
Srni ★ The Proceedings of the 19th Winter School "Geometry and Physics". **2001b:00026**
— ★ Proceedings of the 20th Winter School "Geometry and Physics". **2001k:00020**
St. Petersburg ★ Tools for mathematical modelling. **2001f:00031**
— ★ Tools for mathematical modelling. **2001f:00032**
— ★ {Топология и динамика, памяти В. А. Рохлина}. (Russian) [{Topology and dynamics, in memory of V. A. Rokhlin}] **2001h:00033**
Statistical inference, combinatorics and related areas ★ Statistical inference, combinatorics and related areas. **2001e:00025**
Stochastic and chaotic dynamics in The Lakes ★ Stochastic and chaotic dynamics in The Lakes. **2001e:00026**
Stony Brook, NY ★ Laminations and foliations in dynamics, geometry and topology. **2001h:00027**
Symmetry in nonlinear mathematical physics ★ Symmetry in nonlinear mathematical physics. Parts 1, 2. **2001b:00029**
Symposium:
Applied Mathematics ★ Lectures on applied mathematics. **2001b:00022**
Discrete Algorithms ★ Ninth Annual ACM-SIAM Symposium on Discrete Algorithms. **2001d:00052**
— ★ Tenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2001i:00042**
Discrete Simulation of Fluid Dynamics ★ Discrete simulation of fluid dynamics. **2001c:00017**
Dynamic Games and Applications ★ Advances in dynamic games and applications. **2001b:00014**
Essén, Matts ★ Complex analysis and differential equations. **2001a:00023**
Katachi U Symmetry ★ Proceedings of the 2nd International Katachi U Symmetry Symposium, Part 1. **2001b:00024**
Mathematical Physics ★ XXXI Symposium on Mathematical Physics. **2001g:00023**
McNabb, Alex ★ McNabb Symposium. Part I. **2001i:00043**
— ★ McNabb Symposium. Part II.
New Solution Methods and Domain Decomposition Methods in Computational Mechanics ★ Keisan rikigaku no atarashii kaihō to ryōiki bunkatsuhō. [New solution methods and domain decomposition methods in computational mechanics] **2001d:00041**
Research on Nonlinear Analysis and Convex Analysis ★ Hisenkei kaisekigaku to totsu kaisekigaku no kenkyū. [Research on nonlinear analysis and convex analysis] **2001d:00047**
Research on the Theory and Applications of Computer Algebra ★ Sūshiki shori ni okeru riron to ōyō no kenkyū. (Japanese) [Research on the theory and applications of computer algebra] **2001d:00048**
Tel Aviv ★ GAFA 2000. **2001m:00020**
— ★ GAFA 2000. **2001m:00021**
Thessaloniki ★ Proceedings of the 2nd Panhellenic Conference in Algebra and Number Theory. **2001j:00030**
Tokyo ★ Discrete simulation of fluid dynamics. **2001c:00017**
Tools for mathematical modelling ★ Tools for mathematical modelling. **2001f:00031**
— ★ Tools for mathematical modelling. **2001f:00032**
Topics in functional differential and difference equations ★ Topics in functional differential and difference equations. **2001j:00032**
Topology and dynamics, in memory of V. A. Rokhlin ★ {Топология и динамика, памяти В. А. Рохлина}. (Russian) [{Topology and dynamics, in memory of V. A. Rokhlin}] **2001h:00033**
Toronto, ON ★ Formal power series and algebraic combinatorics. **2001f:00025**
Toruń ★ XXXI Symposium on Mathematical Physics. **2001g:00023**
Trieste ★ European women in mathematics. **2001f:00024**
Tsukuba ★ Proceedings of the 2nd International Katachi U Symmetry Symposium, Part 1. **2001b:00024**
— ★ Proceedings of the 2nd International Katachi U Symmetry Symposium. Part 2. **2001i:00036**
— ★ Proceedings of the 2nd International Katachi U Symmetry Symposium. Part 3. **2001i:00037**
Type theory and term rewriting ★ Type theory and term rewriting. **2001a:00035**
Uppsala ★ Complex analysis and differential equations. **2001a:00023**
Valencia ★ Actas del Séptimo Encuentro de Otoño de Geometría Diferencial y sus Aplicaciones. [Proceedings of the 7th Autumn Conference on Differential Geometry and its Applications] **2001e:00022**
Valletta ★ Fractals and beyond. **2001m:00019**
Valparaíso ★ Materials instabilities. **2001c:00020**
Varanasi ★ Statistical inference, combinatorics and related areas. **2001e:00025**
Vienna ★ Formal power series and algebraic combinatorics. **2001a:00029**
— ★ Contributions to general algebra. 12. **2001d:00039**
— ★ 3rd IMACS Symposium on Mathematical Modelling—3rd MATHMOD Vienna. **2001h:00026**
Warsaw ★ Algebraic analysis and related topics. **2001d:00026**
Wave splitting and inverse problems ★ Wave splitting and inverse problems. **2001b:00030**
Working Group:
Fuzzy Sets ★ EUROFUSE '99. **2001b:00020**
Workshop:
Algorithm Engineering ★ Second Workshop on Algorithm Engineering. **2001g:00024**
Complexity Theory, Real Machines, and Homotopy ★ {Complexity theory, real machines, and homotopy}. **2001d:00031**
Computation, Optimization and Control ★ The Bellman continuum.
Constraints and Artistic Applications ★ Special issue on constraints for multimedia artistic applications. **2001i:00041**
Contemporary Problems in Mathematical Physics ★ Contemporary problems in mathematical physics. **2001d:00038**
Crystallographic Groups and their Generalizations ★ Crystallographic groups and their generalizations. **2001e:00018**
General Algebra ★ Contributions to general algebra. 12. **2001d:00039**
Mathematical Methods of Regular Dynamics ★ Kowalevski Workshop on Mathematical Methods of Regular Dynamics.
Maximum Entropy and Bayesian Methods of Statistical Analysis ★ Maximum entropy and Bayesian methods. **2001f:00026**
Measure Theory and Real Analysis ★ Workshop di Teoria della Misura e Analisi Reale. [Workshop on Measure Theory and Real Analysis] **2001f:00033**
New Methods in Applied and Computational Mathematics ★ New methods in applied and computational mathematics. **2001b:00023**
Nonlinear Evolution Equations and Dynamical Systems ★ Нелинейные эволюционные уравнения и динамические системы. (Russian) [Nonlinear evolution equations and dynamical systems] **2001d:00042**
— ★ Нелинейные эволюционные уравнения и динамические системы. (Russian) [Nonlinear evolution equations and dynamical systems] **2001d:00043**
Physical Combinatorics ★ Physical combinatorics. **2001a:00033**

Workshop: (*cont'd.*)
Physics ★ {Peyresq physics. 3}. **2001a:00032**
Solitons: Properties, Dynamics, Interactions, Applications ★ Solitons. **2001d:00050**
Stochastic Numerics ★ Kakuritsu sûchi kaiseki ni okeru sho mondai. IV. (Japanese) [4th workshop on stochastic numerics] **2001d:00053**
Topology ★ {Topology Workshops at the 14th Summer Conference on Topology and its Applications}. **2001i:00044**

Items with secondary classifications in 00B25

(Aksent'ev, L. A.) *see* **Proceedings: Lobachevskiĭ Mathematical Center**
(Al'beverio, S.) *see* **Stochastic processes, physics and geometry: new interplays, 2001f:00036** *and* **2001f:00037**
(Aristotle) *see* **Aristotle and contemporary science, 2001g:00009** *and* **2001g:00010**
(Arslanov, Marat M.) *see* **Proceedings: Lobachevskiĭ Mathematical Center**
(Belyĭ, V. I.) *see* **Theory of the approximation of functions, 2001g:00028**
(Bikchentaev, A. M.) *see* **Proceedings: Lobachevskiĭ Mathematical Center**
(Blokhuis, Aart) *see* **Special Issue: Seidel, Johan Jacob, 2001g:00027**
(Borwein, Jonathan M.) *see* **Constructive, experimental, and nonlinear analysis, 2001d:00056**
(Braden, H. W.) *see* **Integrability: the Seiberg-Witten and Whitham equations, 2001i:37003**
Burkard, Rainer E. (*with* Deuflhard, Peter; Jameson, Antony; Lions, Jacques-Louis; Strang, Gilbert) ★ Computational mathematics driven by industrial problems. **2001g:65009**
(Bytsenko, Andrei A.) *see* **Mathematical methods in physics, 2001c:58001**
(Capasso, Vincenzo) *see* **Burkard, Rainer E. et al., 2001g:65009**
Deuflhard, Peter *see* **Burkard, Rainer E. et al., 2001g:65009**
(DeVore, Ronald A.) *see* **Foundations of computational mathematics, 2001m:65003**
(Dito, Giuseppe) *see* **Conference: Flato, Moshé, 2001h:00035** *and* **2001h:00036**
(Dolapchiev, Blagovest) *see* **Dedicated to the memory of Professor Blagovest Dolapchiev, 2001a:00036**
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(Feyel, Denis) *see* **ICPA98**
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(Hadjisavvas, Nicolas) *see* **Generalized convexity and generalized monotonicity, 2001k:90005**
(Haemers, Willem H.) *see* **Special Issue: Seidel, Johan Jacob, 2001g:00027**
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(Hattiangadi, Jagdish) *see* **Aristotle and contemporary science, 2001g:00010**
(Hilbert, David[1]) *see* **Ideas of David Hilbert, 2001h:01001**
(Hirsch, Francis) *see* **ICPA98**
(Hmissi, Mohamed) *see* **ICPA98**
(Holden, Helge) *see* **Stochastic processes, physics and geometry: new interplays, 2001f:00036** *and* **2001f:00037**
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(Ibort, Luis Alberto) *see* **Proceedings: Seminar on Geometry, Continua and Microstructure, 2001a:74001**
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(Isidori, Alberto) *see* **Nonlinear control in the year 2000, 2001g:93005** *and* **2001g:93006**
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(Johnson, David M.) *see* **Aristotle and contemporary science, 2001g:00010**
(Jost, Jürgen) *see* **Stochastic processes, physics and geometry: new interplays, 2001f:00036** *and* **2001f:00037**
(Keimel, K.) *see* **Modern algebra and its applications, 2001e:68011**
(Kelarev, A. V.) *see* **Abelian groups, rings and modules, 2001i:20001**
(Kerber, Manfred) *see* **Computer algebra and mechanized reasoning**
(Klokov, V. V.) *see* **Proceedings: Lobachevskiĭ Mathematical Center**
(Krasnopolina, È. I.) *see* **Conference: Pontryagin, Lev Semenovich, Optimal Control, 2001d:00066**
(Krichever, Igor Moiseevich) *see* **Integrability: the Seiberg-Witten and Whitham equations, 2001i:37003**
(Kuznetsov, Evgeniĭ Aleksandrovich) *see* **Advances in nonlinear mathematics and science**
(Lamnabhi-Lagarrigue, Françoise) *see* **Nonlinear control in the year 2000, 2001g:93005** *and* **2001g:93006**
(Lee, Peng Yee) *see* **Proceedings: Mathematics Conference, 2001d:00063**
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(Levermore, C. David) *see* **Advances in nonlinear mathematics and science**
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(Manásevich, Raúl) *see* **Proceedings: Workshop on Nonlinear Analysis, 2001g:35005**
(Mangasarian, Olvi L.) *see* **Complementarity: applications, algorithms and extensions, 2001i:90004**
(Martín de Diego, David) *see* **Proceedings: Seminar on Geometry, Continua and Microstructure, 2001a:74001**
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(Periaux, Jacques) *see* **Burkard, Rainer E. et al., 2001g:65009**
(Pontryagin, L. S.) *see* **Conference: Pontryagin, Lev Semenovich, Optimal Control, 2001d:00066** *and* **Conference: Pontryagin, Lev Semenovich, Nonsmooth Analysis and Optimization, 2001d:00067**
(Putnam, Hilary) *see* **Aristotle and contemporary science, 2001g:00009**
(Rabinowitz, Paul H.) *see* **Proceedings: Workshop on Nonlinear Analysis, 2001g:35005**
(Rangaswamy, K. M.) *see* **Abelian groups, rings and modules, 2001i:20001**
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(Respondek, Witold) *see* **Nonlinear control in the year 2000, 2001g:93005** *and* **2001g:93006**
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(Scarlatti, Sergio) *see* **Stochastic processes, physics and geometry: new interplays, 2001f:00036** *and* **2001f:00037**
(Schultz, Phillip) *see* **Abelian groups, rings and modules, 2001i:20001**
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(Skrypnik, Igor V.) *see* **Theory of the approximation of functions, 2001g:00028**
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(Ural'tseva, N. N.) *see* **Some questions of mathematical physics and function theory, 2001m:35004**
(Urbański, Paweł) *see* **Poisson geometry, 2001a:53002**
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Anniversary:
Birth of Pontryagin ★ Pontryagin Conference. 1. Optimal Control. **2001d:00066**
Birth of Pontryagin, Lev Semenovich ★ Pontryagin Conference. 2. Nonsmooth Analysis and Optimization. **2001d:00067**
Death of Dolapchiev, Blagovest ★ {Посвещава на паметта на чл.-кор. проф. д-р Благовест Долапчиев}. (Bulgarian) [Dedicated to the memory of Professor Blagovest Dolapchiev] **2001a:00036**
Publication of *Grundlagen der Geometrie* ★ Il pensiero di David Hilbert. (Italian) [The ideas of David Hilbert] **2001h:01001**
Aristotle and contemporary science ★ Aristotle and contemporary science. Vol. I. **2001g:00009**
— ★ Aristotle and contemporary science. Vol. II. **2001g:00010**
Atlanta, GA ★ Special issue on the Fourteenth Annual IEEE Conference on Computational Complexity. **2001j:68004**
Barcelona ★ 14th European Workshop on Computational Geometry CG'98. **2001h:65005**
Birthday:
de Oliveira, Graciano Neves ★ Matrices and group representations. **2001b:00032**
Lee, Peng Yee ★ Proceedings of the International Mathematics Conference. **2001d:00063**
Boca Raton, FL ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05002**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05003**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatories, Graph Theory and Computing. **2001i:05004**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05005**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05006**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05007**
Brussels ★ Dedicated to Grégoire Nicolis on the occasion of his sixtieth birthday. **2001h:00038**
Catania ★ Il pensiero di David Hilbert. (Italian) [The ideas of David Hilbert] **2001h:01001**
Coimbra ★ Matrices and group representations. **2001b:00032**

Complementarity: applications, algorithms and extensions ★ Complementarity: applications, algorithms and extensions. **2001i:90004**
Computational mathematics driven by industrial problems *see* **Burkard, Rainer E. et al., 2001g:65009**
Computer algebra and mechanized reasoning ★ Computer algebra and mechanized reasoning.
Conference:
Complementarity 99 ★ Complementarity: applications, algorithms and extensions. **2001i:90004**
Current Problems in Mathematics and Mechanics ★ Труды Математического Центра имени Н. И. Лобачевского. Том 5. (Russian) [Proceedings of the N. I. Lobachevskiĭ Mathematical Center. Vol. 5]
Flato, Moshé ★ Conférence Moshé Flato 1999. Vol. I. **2001h:00035**
— ★ Conférence Moshé Flato 1999. Vol. II. **2001h:00036**
Geometric and Algebraic Combinatorics ★ Special issue dedicated to Dr. Jaap Seidel on the occasion of his 80th birthday. **2001g:00027**
Infinite-dimensional (Stochastic) Analysis and Quantum Physics ★ Stochastic processes, physics and geometry: new interplays. I. **2001f:00036**
— ★ Stochastic processes, physics and geometry: new interplays. II. **2001f:00037**
Lattices and Universal Algebra ★ Conference on Lattices and Universal Algebra. **2001i:06001**
Mathematics ★ Proceedings of the International Mathematics Conference. **2001d:00063**
Modern Algebra and its Applications ★ Modern algebra and its applications. **2001e:68011**
Nexus 2000: Relations between Architecture and Mathematics ★ Nexus III: architecture and mathematics. **2001i:01005**
Nonlinear Programming and Variational Inequalities ★ International Conference on Nonlinear Programming and Variational Inequalities. **2001i:90005**
Optimization—Methods and Applications ★ German-Polish Conference on Optimization—Methods and Applications. **2001i:90006**
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Constructive, experimental, and nonlinear analysis ★ Constructive, experimental, and nonlinear analysis. **2001d:00056**
Contemporary Mathematics ★ Abelian groups, rings and modules. **2001i:20001**
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de Oliveira, Graciano Neves ★ Matrices and group representations. **2001b:00032**

Debus, Allen G. ★ Experiencing nature. **2001c:00025**

Elliott, David ★ Papers in honour of David Elliott on the occasion of his sixty-fifth birthday.

Emel'yanov, Stanislav Vasil'evich ★ Нелинейная динамика и управление. (Russian) [Nonlinear dynamics and control] **2001c:00027**

Essler, Wilhelm K. ★ Festschrift in honour of Wilhelm K. Essler on the occasion of his sixtieth birthday. (German)

Faddeev, Lyudvig Dmitrievich К 65-летию со дня рождения академика Людвига Дмитриевича Фаддеева. (Russian) [On the occasion of the 65-th birthday of Academician Lyudvig Dmitrievich Faddeev]

Fulton, William ★ {Dedicated to William Fulton on the occasion of his 60th birthday}. **2001d:00057**

Gol'dberg, Anatolii Asirovich ★ Dedicated to A. A. Gol'dberg on the occasion of his 70th anniversary.

Grünbaum, Branko ★ The Branko Grünbaum birthday issue.

Gutzwiller, Martin C. ★ Invited papers dedicated to Martin C. Gutzwiller. Part I.

— ★ {Invited papers dedicated to Martin C. Gutzwiller. Part III}.

— ★ {Invited papers dedicated to Martin C. Gutzwiller. Part II}.

— ★ {Invited papers dedicated to Martin C. Gutzwiller. Part IV}.

Győry, Kálmán ★ {Dedicated to Professor Kálmán Győry on the occasion of his 60th birthday}.

Hale, Jack K. ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 1.

— ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 2.

— ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 3.

— ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 4.

Haller, Kurt ★ Dedicated to Kurt Haller on the occasion of his 70th birthday.

— ★ Dedicated to Kurt Haller on the occasion of his 70th birthday.

— ★ Dedicated to Kurt Haller on the occasion of his 70th birthday.

Hartshorne, Robin ★ Special issue in honor of Robin Hartshorne.

Hida, Takeyuki ★ Recent developments in infinite-dimensional analysis and quantum probability.

Hoàng Tùy ★ Dedicated to Professor Hoang Tuy's 70th birthday.

Ingarden, Roman Stanisław ★ {Dedicated to Professor Roman S. Ingarden on the occasion of his 80th birthday}.

Iskovskikh, Vasilii Alekseevich ★ Algebraic geometry. 10. **2001e:00027**

Kunitzsch, Paul ★ Sic itur ad astra. **2001h:00040**

Lakshmikantham, V. ★ Lakshmikantham's legacy: a tribute on his 75th birthday. **2001a:00037**

— ★ Differential equations and nonlinear mechanics. **2001k:00023**

Lambek, Joachim ★ The Lambek Festschrift: mathematical structures in computer science. **2001d:00059**

Lee, Peng Yee ★ Proceedings of the International Mathematics Conference. **2001d:00063**

Lewandowski, Zdzisław ★ {Dedicated to Professor Zdzisław Lewandowski on the occasion of his seventieth birthday}.

Livšic, Moshe S. ★ Operator theory, system theory and related topics. **2001j:00035**

Luenberger, David G. ★ Special Issue in honor of Professor David G. Luenberger. **2001d:00064**

Marcus, Solomon ★ Finite versus infinite. **2001e:00030**

Mardešić, Sibe ★ Geometric topology: Dubrovnik 1998. **2001k:00024**

Maurer, Iulius Gyula ★ Gyula Maurer zum 70. Geburtstag. (German) [To Gyula Maurer on his 70th birthday] **2001e:00028**

Mishra, Ratan Shanker ★ Special volume to felicitate Prof. Dr. R. S. Mishra on the occasion of his 80th birthday. **2001a:00039**

Moszner, Zenon ★ Dedicated to Professor Zenon Moszner on the occasion of his seventieth birthday.

Nicolis, Grégoire ★ Dedicated to Grégoire Nicolis on the occasion of his sixtieth birthday. **2001h:00038**

Plemmons, Robert James ★ Conference Celebrating the 60th Birthday of Robert J. Plemmons. **2001d:00055**

Pop, Maria Sanziana ★ {Dedicated to Maria Sanziana Pop on her 60th birthday}.

Popoviciu, Elena ★ Analysis, functional equations, approximation and convexity. **2001k:00021a**

Quillen, Daniel G. ★ Special issues dedicated to Daniel Quillen on the occasion of his sixtieth birthday. Part V.

Rice, John Rischard ★ Special issue in honor of John Rice's 65th birthday.

Roggenkamp, Klaus W. ★ Special issue dedicated to Klaus Roggenkamp on the occasion of his 60th birthday.

Rosenberg, Ivo G. ★ Ivo G. Rosenberg's 65th birthday.

Saksena, K. M. ★ Prof. K. M. Saksena felicitation volume.

Salzmann, Helmut R. ★ Special issue dedicated to Helmut R. Salzmann on the occasion of his 70th birthday.

Seidel, Johan Jacob ★ Special issue dedicated to Dr. Jaap Seidel on the occasion of his 80th birthday. **2001g:00027**

Sharir, Micha ★ The Micha Sharir birthday issue.

Shrikhande, S. S. ★ Special issue on design combinatorics: in honor of S. S. Shrikhande.

Stancu, Dimitrie D. ★ Dédié au Professeur Dr. D. D. Stancu à l'occasion de son 70e anniversaire. [Dedicated to Professor Dr. D. D. Stancu on the occasion of his 70th birthday]
Staś, Włodzimierz ★ {Dedicated to Włodzimierz Staś on the occasion of his 75th birthday}.
Stell, George R. ★ Special issue dedicated to George Stell.
Strecker, George E. ★ Categorical perspectives. **2001k:00022**
Udrişte, Constantin N. ★ {Dedicated to Professor Constantin Udrişte}.
Ueno, Sueo ★ Special issue dedicated to Sueo Ueno.
Ul'yanov, Petr Lavrent'evich ★ Метрическая теория функций и смежные вопросы анализа. (Russian) [Metric theory of functions and related problems in analysis] **2001d:00060**
Varga, Richard S. ★ Mathematical journey through analysis, matrix theory and scientific computation. **2001j:00034**
Wessels, Jaap ★ Stochastic operations research.
Wielandt, Helmut W. ★ Special issue in honor of Helmut Wielandt.
Zakharov, Vladimir E. ★ Advances in nonlinear mathematics and science.
Finite versus infinite ★ Finite versus infinite. **2001e:00030**
Geometric topology ★ Geometric topology: Dubrovnik 1998. **2001k:00024**
Homogenization ★ Homogenization. **2001f:00034**
Iaşi ★ Mathematical analysis and applications. **2001i:00046**
In honour of Academician Nicolae Dan Cristescu on his 70th birthday ★ {In honour of Academician Nicolae Dan Cristescu on his 70th birthday}.
In honour of Academician Romulus Cristescu on his 70th birthday ★ {In honour of Academician Romulus Cristescu on his 70th birthday}.
In memory of Gian-Carlo Rota ★ In memory of Gian-Carlo Rota. **2001c:00026**
In memory of Mikhail Vladimirovich Savel'ev ★ Памяти Михаила Владимировича Савельева. [In memory of Mikhail Vladimirovich Savel'ev] **2001e:00031**
Invited papers dedicated to Martin C. Gutzwiller ★ Invited papers dedicated to Martin C. Gutzwiller. Part I.
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Ivo G. Rosenberg's 65th birthday ★ Ivo G. Rosenberg's 65th birthday.
Kalamazoo, MI ★ Paul Catlin memorial collection. **2001i:00047**
Kent, OH ★ Mathematical journey through analysis, matrix theory and scientific computation. **2001j:00034**
— ★ Categorical perspectives. **2001k:00022**
Lakshmikantham's legacy: a tribute on his 75th birthday ★ Lakshmikantham's legacy: a tribute on his 75th birthday. **2001a:00037**
Lambek Festschrift: mathematical structures in computer science ★ The Lambek Festschrift: mathematical structures in computer science. **2001d:00059**
Leipzig ★ Stochastic processes, physics and geometry: new interplays. I. **2001f:00036**
— ★ Stochastic processes, physics and geometry: new interplays. II. **2001f:00037**
Limoges ★ Constructive, experimental, and nonlinear analysis. **2001d:00056**
Lisbon ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 1.
— ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 2.
— ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 3.
— ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 4.
Manila ★ Proceedings of the International Mathematics Conference. **2001d:00063**
Mathematical analysis and applications ★ Mathematical analysis and applications. **2001i:00046**
Mathematical contributions: volume in honor of Professor Joaquín Arregui Fernández ★ Contribuciones matemáticas: libro-homenaje al profesor D. Joaquín Arregui Fernández. (Spanish) [Mathematical contributions: volume in honor of Professor Joaquín Arregui Fernández] **2001h:00039**
Mathematical journey through analysis, matrix theory and scientific computation ★ Mathematical journey through analysis, matrix theory and scientific computation. **2001j:00034**
Matrices and group representations ★ Matrices and group representations. **2001b:00032**
Memorial Issue:
Abellanas, Pedro F. ★ Número especial dedicado al profesor P. Abellanas. (Spanish) [Special issue dedicated to Professor P. Abellanas]
Boolos, George Stephen ★ The George Boolos Memorial Symposium. II. **2001i:00049**
Catlin, Paul A. ★ Paul Catlin memorial collection. **2001i:00047**
Crawford, John David ★ Bifurcations, patterns and symmetry. **2001d:00054**
De Giorgi, Ennio ★ Contributi dedicati alla memoria di Ennio De Giorgi. [Contributions in honor of the memory of Ennio De Giorgi]
Dolapchiev, Blagovest ★ {Посвещава на паметта на чл.-кор. проф. д-р Благовест Долапчиев}. (Bulgarian) [Dedicated to the memory of Professor Blagovest Dolapchiev] **2001a:00036**
Fichera, Gaetano ★ Dedicato alla memoria di Gaetano Fichera. [Dedicated to the memory of Gaetano Fichera]
Flato, Moshé ★ {Conference Moshé Flato 1999}. **2001h:00034**
Gargov, Georgi K. ★ Issue in memory of George Gargov.
Gnedenko, Boris Vladimirovich ★ Статьи, посвященные памяти Б. В. Гнеденко. [Research papers dedicated to the memory of B. V. Gnedenko]
Gorbunov, Viktor Aleksandrovich ★ {The Viktor Aleksandrovich Gorbunov memorial issue}.
Harris, William A., Jr. ★ Special issue in memory of W. A. Harris, Jr.
Huijsmans, Charles Boudewijn ★ Positivity and its applications. **2001f:00035**
Iwanik, Anzelm ★ Dedicated to the memory of Anzelm Iwanik. **2001d:00058**
Kodaira, Kunihiko ★ {Kodaira's issue}. **2001g:00026**
Koiter, Warner Tjardus ★ Stability, strength and stiffness in materials and structures.
Luttinger, Joaquin M. ★ Special issue dedicated to the memory of Joaquin M. Luttinger.
Moisil, Grigore Costantin ★ G. C. Moisil memorial issue.
Prudnikov, Anatolii Platonovich ★ Analytical methods of analysis and differential equations.
Pugachev, Vladimir Semenovich ★ Современные проблемы оптимизации стохастических систем. (Russian) [Modern problems in the optimization of stochastic systems] **2001i:00048**
Rota, Gian-Carlo ★ In memory of Gian-Carlo Rota. **2001c:00026**
Savel'ev, Mikhail Vladimirovich ★ Памяти Михаила Владимировича Савельева. [In memory of Mikhail Vladimirovich Savel'ev] **2001e:00031**
Smirnov, Vladimir Aleksandrovich[1] ★ Special issue dedicated to the memory of V. A. Smirnov.
Speranza, Francesco ★ {Dedicated to the memory of Francesco Speranza}. (Italian) **2001j:00033**
Tikhonov, Andreĭ Nikolaevich ★ Статьи, посвященные памяти А. Н. Тихонова. (Russian) [Papers dedicated to the memory of A. N. Tikhonov]
Weiss, Richard ★ Special issue in memory of Richard Weiss.
Ziemian, Bogdan ★ {Dedicated to the memory of Bogdan Ziemian}.
Memorial Volume:
Belyĭ, Vladimir Ivanovich ★ Теория приближения функций. (Russian) [Theory of the approximation of functions] **2001g:00028**
Fichera, Gaetano ★ Problemi attuali dell'analisi e della fisica matematica. [Current problems of analysis and mathematical physics] **2001h:00037**
Flato, Moshé ★ Conférence Moshé Flato 1999. Vol. I. **2001h:00035**
— ★ Conférence Moshé Flato 1999. Vol. II. **2001h:00036**
Kozlov, Sergeĭ Mikhaĭlovich ★ Homogenization. **2001f:00034**
Metropolis, Nicholas Constantine ★ Essays on the future. **2001e:00029**
Rokhlin, Vladimir Abramovich ★ Topology, ergodic theory, real algebraic geometry. **2001j:00036**
Vinogradov, Stanislav Aleksandrovich ★ Complex analysis, operators, and related topics. **2001b:00031**
Metric theory of functions and related problems in analysis ★ Метрическая теория функций и смежные вопросы анализа. (Russian) [Metric theory of functions and related problems in analysis] **2001d:00060**
Micha Sharir birthday issue ★ The Micha Sharir birthday issue.
Minsk ★ Analytical methods of analysis and differential equations.
Modern problems in the optimization of stochastic systems ★ Современные проблемы оптимизации стохастических систем. (Russian) [Modern problems in the optimization of stochastic systems] **2001i:00048**
Montreal, QC ★ The Lambek Festschrift: mathematical structures in computer science. **2001d:00059**
NATO Advanced Research Workshop:
Nonlinear Science: Dynamics and Stochasticity ★ Dedicated to Grégoire Nicolis on the occasion of his sixtieth birthday. **2001h:00038**
Nonlinear dynamics and control ★ Нелинейная динамика и управление. (Russian) [Nonlinear dynamics and control] **2001c:00027**
Notre Dame, IN ★ The George Boolos Memorial Symposium. II. **2001i:00049**
Numbers, information and complexity ★ Numbers, information and complexity. **2001a:00038**
Oisterwijk ★ Special issue dedicated to Dr. Jaap Seidel on the occasion of his 80th birthday. **2001g:00027**
On the ninetieth anniversary of Academician Nikolaĭ Nikolaevich Bogolyubov К 90-летию со дня рождения академика Николая Николаевича Боголюбова. (Russian) [On the ninetieth anniversary of Academician Nikolaĭ Nikolaevich Bogolyubov] **2001d:00061**
On the occasion of the 65-th birthday of Academician Lyudvig Dmitrievich Faddeev К 65-летию со дня рождения академика Людвига Дмитриевича Фаддеева. (Russian) [On the occasion of the 65-th birthday of Academician Lyudvig Dmitrievich Faddeev]
Operator theory, system theory and related topics ★ Operator theory, system theory and related topics. **2001j:00035**
Orlando, FL ★ Differential equations and nonlinear mechanics. **2001k:00023**
Papers dedicated to the memory of A. N. Tikhonov ★ Статьи, посвященные памяти А. Н. Тихонова. (Russian) [Papers dedicated to the memory of A. N. Tikhonov]
Papers in honour of Bernhard Banaschewski ★ Papers in honour of Bernhard Banaschewski. **2001d:00062**
Papers in honour of David Elliott on the occasion of his sixty-fifth birthday ★ Papers in honour of David Elliott on the occasion of his sixty-fifth birthday.
Positivity and its applications ★ Positivity and its applications. **2001f:00035**
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Conference on Models and Numerical Methods in Transport Theory and in Mathematical Physics ★ Proceedings of the International Conference on Models and Numerical Methods in Transport Theory and in Mathematical Physics. **2001b:00033**
Mathematics Conference ★ Proceedings of the International Mathematics Conference. **2001d:00063**
Prof. K. M. Saksena felicitation volume ★ Prof. K. M. Saksena felicitation volume.
Recent developments in infinite-dimensional analysis and quantum probability ★ Recent developments in infinite-dimensional analysis and quantum probability.
Rehovot ★ Operator theory, system theory and related topics. **2001j:00035**
Research papers dedicated to the memory of B. V. Gnedenko ★ Статьи, посвященные памяти Б. В. Гнеденко. [Research papers dedicated to the memory of B. V. Gnedenko]
Rome ★ Proceedings of the International Conference on Models and Numerical Methods in Transport Theory and in Mathematical Physics. **2001b:00033**
Seminar:
Savel'ev, Mikhail Vladimirovich ★ Памяти Михаила Владимировича Савельева. [In memory of Mikhail Vladimirovich Savel'ev] **2001e:00031**
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Dolapchiev, Blagovest ★ {Посвещава на паметта на чл.-кор. проф. д-р Благовест Долапчиев}. (Bulgarian) [Dedicated to the memory of Professor Blagovest Dolapchiev] **2001a:00036**
Sevilla ★ Visions of nonlinear science in the 21st century. **2001j:00037**
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Sofia ★ {Посвещава на паметта на чл.-кор. проф. д-р Благовест Долапчиев}. (Bulgarian) [Dedicated to the memory of Professor Blagovest Dolapchiev] **2001a:00036**
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Special Issue:
Abellanas, Pedro F. ★ Número especial dedicado al profesor P. Abellanas. (Spanish) [Special issue dedicated to Professor P. Abellanas]
Bellman, Richard Ernest ★ Special issue in honor of Richard Bellman.
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Design combinatorics: in honor of S. S. Shrikhande ★ Special issue on design combinatorics: in honor of S. S. Shrikhande.
Hale, Jack K. ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 1.
— ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 2.
— ★ Special issue in celebration of Jack K. Hale's 70th birthday. Part 3.
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Harris, William A., Jr. ★ Special issue in memory of W. A. Harris, Jr.
Hartshorne, Robin ★ Special issue in honor of Robin Hartshorne.
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On the occasion of the 80th birthday of Professor Dr. R. S. Mishra ★ Special volume to felicitate Prof. Dr. R. S. Mishra on the occasion of his 80th birthday. **2001a:00039**
Quillen, Daniel G. ★ Special issues dedicated to Daniel Quillen on the occasion of his sixtieth birthday. Part V.
Rice, John Rischard ★ Special issue in honor of John Rice's 65th birthday.
Roggenkamp, Klaus W. ★ Special issue dedicated to Klaus Roggenkamp on the occasion of his 60th birthday.
Salzmann, Helmut R. ★ Special issue dedicated to Helmut R. Salzmann on the occasion of his 70th birthday.
Seidel, Johan Jacob ★ Special issue dedicated to Dr. Jaap Seidel on the occasion of his 80th birthday. **2001g:00027**
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Theory of the approximation of functions ★ Теория приближения функций. (Russian) [Theory of the approximation of functions] **2001g:00028**
To Corresponding Member of RAS Revaz Valerianovich Gamkrelidze on the occasion of his 70th birthday К 70-летию со дня рождения члена-корреспондента РАН Реваза Валериановича Гамкрелидзе. (Russian) [To Corresponding Member of RAS Revaz Valerianovich Gamkrelidze on the occasion of his 70th birthday]
Topics in singularity theory ★ Topics in singularity theory. **2001a:00040**
Topology, ergodic theory, real algebraic geometry ★ Topology, ergodic theory, real algebraic geometry. **2001j:00036**
Visions of nonlinear science in the 21st century ★ Visions of nonlinear science in the 21st century. **2001j:00037**
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(Ahlfors, Lars V.) *see* **Lectures in memory of Lars Ahlfors, 2001d:30001**
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Danzer, Ludwig W. ★ Selected papers in honor of Ludwig Danzer.
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Kostrikin, Aleksei Ivanovich ★ Algebra. 12. **2001d:00065**
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Krzyż, Jan Grzegorz ★ XII-th Conference on Analytic Functions. **2001c:30002**
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Lawvere, F. William ★ Categorical studies in Italy. **2001d:00028**
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Kyiv ★ Problems of theoretical and mathematical physics. **2001g:81003**
Kyoto ★ Physical combinatorics. **2001a:00033**
Lectures in memory of Lars Ahlfors ★ Lectures in memory of Lars Ahlfors. **2001d:30001**
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Lyon ★ Geometry and topology of submanifolds. IX. **2001f:53002**
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Geometry and Topology of Submanifolds ★ Geometry and topology of submanifolds. IX. **2001f:53002**
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Boolos, George Stephen ★ {Special issue in honor and memory of George S. Boolos}. **2001i:03010**
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— ★ Paul Erdős and his mathematics.
Fatunla, Simeon Ola ★ S. O. Fatunla commemorative. **2001d:65008**
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Sukhatme, Pandurang V. ★ {Dedicated to the memory of Professor P. V. Sukhatme}.
Yukawa, Hideki ★ Dynamics of fields and strings. **2001a:81004**
Zames, George ★ George Zames commemorative issue.
Memorial Volume:
Ahlfors, Lars Valerian ★ Lectures in memory of Lars Ahlfors. **2001d:30001**
Bell, John Stewart ★ Quantum reflections. **2001f:81010**
Busenberg, Stavros N. ★ Differential equations and applications to biology and to industry. **2001d:92001**
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Leontovich-Andronova, Evgeniya Aleksandrovna ★ Methods of qualitative theory of differential equations and related topics. **2001b:37005**
Simo, Juan Carlos ★ Mechanics: from theory to computation. **2001b:00036**
Uglov, Denis B. ★ Physical combinatorics. **2001a:00033**
Zakrzewski, Stanisław ★ Poisson geometry. **2001a:53002**
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Munich ★ Lectures on applied mathematics. **2001b:00022**
Nishinomiya ★ Dynamics of fields and strings. **2001a:81004**
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Poisson geometry ★ Poisson geometry. **2001a:53002**
Problems of theoretical and mathematical physics ★ Problems of theoretical and mathematical physics. **2001g:81003**
Proceedings:
Symposium on Mathematical Physics and Quantum Field Theory ★ Proceedings of the Symposium on Mathematical Physics and Quantum Field Theory. **2001d:81003**

Proceedings: (*cont'd.*)
Workshop on the Baxter Revolution in Mathematical Physics ★ Proceedings of the Baxter Revolution in Mathematical Physics.
Progress in Mathematics ★ Physical combinatorics. **2001a:00033**
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Krzyż, Jan G. ★ XII-th Conference on Analytic Functions. **2001c:30002**
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Quillen, Daniel G. ★ Special issues dedicated to Daniel Quillen on the occasion of his sixtieth birthday. Part II.
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Surveys on surgery theory ★ Surveys on surgery theory. Vol. 2. **2001i:57001**
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Advances in the Continuum Mechanics and Thermodynamics of Material Behavior ★ In recognition of the sixtieth birthday of Roger L. Fosdick.
Applied Mathematics ★ Lectures on applied mathematics. **2001b:00022**
Computational Sciences ★ 1999 International Symposium on Computational Sciences, to honor John R. Rice. **2001h:65004**
Essén, Matts ★ Complex analysis and differential equations. **2001a:00023**
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In Pursuit of Simplicity ★ Special issue in honor of Edsger W. Dijkstra. **2001i:68012**
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Theoretical Physics ★ Dynamics of fields and strings. **2001a:81004**
Thought, language, and ontology ★ Thought, language, and ontology. **2001d:03008**
Tokyo ★ Arrangements—Tokyo 1998. **2001f:55001**
Tribute to Peter Ernst Lauer ★ {Tribute to Peter Ernst Lauer}. **2001d:68030**
Umbral calculus and its applications ★ Umbral calculus and its applications.
Uppsala ★ Complex analysis and differential equations. **2001a:00023**
Valencia ★ Third Iberoamerican Conference on Topology and its Applications. **2001h:54003**
Valenciennes ★ Geometry and topology of submanifolds. IX. **2001f:53002**
Warsaw ★ Poisson geometry. **2001a:53002**
West Lafayette, IN ★ 1999 International Symposium on Computational Sciences, to honor John R. Rice. **2001h:65004**
Workshop:
Mathematics Related with Arrangements of Hyperplanes ★ Arrangements—Tokyo 1998. **2001f:55001**
Partial Differential Equations ★ Workshop on Partial Differential Equations. **2001h:35001**
PDEs and Submanifolds ★ Geometry and topology of submanifolds. X. **2001g:53001**
Physical Combinatorics ★ Physical combinatorics. **2001a:00033**
Poisson Geometry ★ Poisson geometry. **2001a:53002**

00B50 Volumes of selected translations

Items listed otherwise than by author

Sugaku Expositions ★ Sugaku Expositions. **2001e:00032**

00B55 Miscellaneous volumes of translations

(Bakhturin, Yu. A.) *see* **Algebra, 2001d:00065** *and* **2001f:00038**
(Golod, E. S.) *see* **Algebra, 2001d:00065**; **2001f:00038** *and* **2001h:00041**
(Golubeva, Valentina) *see* **Functional analysis, 2001b:00034**
(Izmailova, Z. A.) *see* **Geometry, 2001b:00035** *and* **Dynamical systems, 2001c:00028**
(Kostrikin, Alekseĭ Ivanovich) *see* **Algebra, 2001d:00065** *and* **2001f:00038**
(Krasnopolina, È. I.) *see* **Conference: Pontryagin, Lev Semenovich, Optimal Control, 2001d:00066**
(Ladyzhenskaya, O. A.) *see* **Proceedings: St. Petersburg Mathematical Society, 2001j:00038**
(Mikhalëv, A. V.) *see* **Algebra, 2001h:00041**
(Ostianu, N. M.) *see* **Geometry, 2001b:00035**
(Pontryagin, L. S.) *see* **Conference: Pontryagin, Lev Semenovich, Optimal Control, 2001d:00066** *and* **Conference: Pontryagin, Lev Semenovich, Nonsmooth Analysis and Optimization, 2001d:00067**
(Rozhkovskaya, T. N.) *see* **Problems of mathematical physics and function theory, 2001d:00069**; **2001d:00070** *and* **Function theory and applications, 2001h:00042**
(Sakharova, V. P.) *see* **Conference: Pontryagin, Lev Semenovich, Nonsmooth Analysis and Optimization, 2001d:00067**
(Ural'tseva, N. N.) *see* **Nonlinear equations and mathematical analysis, 2001d:00068**; **Problems of mathematical physics and function theory, 2001d:00069** *and* **2001d:00070**

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Algebra ★ Algebra. 12. **2001d:00065**
— ★ Algebra. 13. **2001f:00038**
— ★ Algebra. 15. **2001h:00041**
Anniversary:
Birth of Pontryagin ★ Pontryagin Conference. 1. Optimal Control. **2001d:00066**
Birth of Pontryagin, Lev Semenovich ★ Pontryagin Conference. 2. Nonsmooth Analysis and Optimization. **2001d:00067**
Applied mathematics and information science ★ Applied mathematics and information science. No. 2. **2001f:00039**
— ★ Applied mathematics and information science. No. 3. **2001g:00029**
Birthday:
Kostrikin, Alekseĭ Ivanovich ★ Algebra. 12. **2001d:00065**
— ★ Algebra. 13. **2001f:00038**
Conference:
Pontryagin, Lev Semenovich, Nonsmooth Analysis and Optimization ★ Pontryagin Conference. 2. Nonsmooth Analysis and Optimization. **2001d:00067**
Pontryagin, Lev Semenovich, Optimal Control ★ Pontryagin Conference. 1. Optimal Control. **2001d:00066**
Dynamical systems ★ Dynamical systems. 8. **2001c:00028**
— ★ Dynamical systems. No. 14. **2001i:00050**
— ★ Dynamical systems. No. 15. **2001m:00027**
Festschrift:
Kostrikin, Alekseĭ Ivanovich ★ Algebra. 12. **2001d:00065**
— ★ Algebra. 13. **2001f:00038**
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Function theory and applications ★ Function theory and applications. **2001h:00042**
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Nonlinear dynamics and control ★ Nonlinear dynamics and control. **2001a:00041**
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Seminar on Stability Problems for Stochastic Models ★ Proceedings of the 19th Seminar on Stability Problems for Stochastic Models. Part I. **2001a:00042**
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St. Petersburg Mathematical Society ★ Труды Санкт-Петербургского Математического Общества. Том 5. (Russian) [Proceedings of the St. Petersburg Mathematical Society. Vol. 5] **2001j:00038**
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Stability Problems for Stochastic Models ★ Proceedings of the 19th Seminar on Stability Problems for Stochastic Models. Part I. **2001a:00042**
— ★ Proceedings of the 19th Seminar on Stability Problems for Stochastic Models. Part II. **2001a:00043**
Statistical methods of estimation and testing of hypotheses ★ Statistical methods of estimation and testing of hypotheses. **2001k:00025**
Vologda ★ Proceedings of the 19th Seminar on Stability Problems for Stochastic Models. Part I. **2001a:00042**
— ★ Proceedings of the 19th Seminar on Stability Problems for Stochastic Models. Part II. **2001a:00043**

Items with secondary classifications in 00B55

(Golod, E. S.) *see* **Algebraic geometry, 2001e:00027**
(Iskovskikh, Vasiliĭ Alekseevich) *see* **Algebraic geometry, 2001e:00027**

Items listed otherwise than by author

Algebraic geometry ★ Algebraic geometry. 10. **2001e:00027**
Birthday:
Iskovskikh, Vasiliĭ Alekseevich ★ Algebraic geometry. 10. **2001e:00027**
Festschrift:
Iskovskikh, Vasiliĭ Alekseevich ★ Algebraic geometry. 10. **2001e:00027**
Statistical methods of estimation and testing of hypotheses ★ Statistical methods of estimation and testing of hypotheses. **2001j:62008**

00B60 Collections of reprinted articles [see also 01A75]

(Babbitt, Donald G.) *see* **Featured reviews in Mathematical Reviews, 2001g:00030**
(Gray, Jeremy J.) *see* **Mathematical conversations, 2001f:00040**
(Kister, Jane E.) *see* **Featured reviews in Mathematical Reviews, 2001g:00030**
(Simo, Juan-Carlos) *see* **Mechanics: from theory to computation, 2001b:00036**
(Wilson, Robin J.) *see* **Mathematical conversations, 2001f:00040**

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Featured reviews in Mathematical Reviews ★ Featured reviews in Mathematical Reviews 1997–1999. **2001g:00030**
Mathematical conversations ★ Mathematical conversations. **2001f:00040**
Mechanics: from theory to computation ★ Mechanics: from theory to computation. **2001b:00036**
Memorial Volume:
Simo, Juan Carlos ★ Mechanics: from theory to computation. **2001b:00036**
Reprint collection ★ {Reprint collection}. **2001e:00033**

Items with secondary classifications in 00B60

Kennedy, Edward S. ★ Astronomy and astrology in the medieval Islamic world. **2001f:01020**
(Schoonhoven, L. M.) *see* **Gems from a century of science**, **2001m:01001**

Items listed otherwise than by author

Gems from a century of science ★ Gems from a century of science 1898–1997. **2001m:01001**

01–XX History and biography [see also the classification number --03 in the other sections]

01–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Dauben, Joseph W.) *see* **History of mathematics from antiquity to the present: a selective annotated bibliography, 2001j:01001**
(Hessenbruch, Arne) *see* **Reader's guide to the history of science, 2001k:01001**
(Lewis, Albert C.) *see* **History of mathematics from antiquity to the present: a selective annotated bibliography, 2001j:01001**
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Reader's guide to the history of science ★ Reader's guide to the history of science. **2001k:01001**

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Süss, Wilhelm *see* **Remmert, Volker R., 2001g:01054**
Essays of a humanistic and Christian mathematician *see* **Malécot, Gustave**
History of science in Eastern Europe ★ Wissenschaftsgeschichte in Osteuropa. (German) [The history of science in Eastern Europe] **2001m:01073**
Réflexions et pensées d'un mathématicien humaniste et chrétien *see* **Malécot, Gustave**
Wissenschaftsgeschichte in Osteuropa ★ Wissenschaftsgeschichte in Osteuropa. (German) [The history of science in Eastern Europe] **2001m:01073**

Items with secondary classifications in 01A80

Alberts, Gerard (*with* Koole, Ger) Maintaining freedom of choice. (Dutch. Dutch summary) **2001j:00021**
Batagelj, Vladimir (*with* Mrvar, Andrej) Some analyses of Erdős collaboration graph. (English summary) **2001j:91101**
Batterson, Steve ★ Stephen Smale: the mathematician who broke the dimension barrier. (English summary) **2001g:01036**
Courtenay, William J. The academic and intellectual worlds of Ockham. (*see* **2001f:00016**)
Davis, Philip J. Ein Blick in die Zukunft: Mathematik in einer Multimedia-Zivilisation. [A glance at the future: mathematics in a multimedia civilization]
(de Fermat, Pierre) *see* **Herreman, Alain, 2001j:01023a** *and* **Gispert, Hélène, 2001j:01023b**
Gispert, Hélène Une comparaison des journaux français et italiens dans les années 1860–1875 [Zbl 884.01022]. (English summary) [A comparison between French and Italian mathematical journals, 1860–1875]
— Finding the social in mathematics and its history. Critical review: Catherine Goldstein's *A theorem of Fermat and its reader* [Presses Univ. Vincennes, Saint-Denis, 1995; MR 97c:01020]. (French) **2001j:01023b**
(Goldstein, Catherine) *see* **Herreman, Alain, 2001j:01023a** *and* **Gispert, Hélène, 2001j:01023b**
Golland, Louise (*with* Sigmund, Karl) Exact thought in a demented time: Karl Menger and his Viennese Mathematical Colloquium. **2001e:01030**
— *see also* **Menger, Karl, 2001f:01051**
(Grunert, Johann August) *see* **Schreiber, Peter**
Herreman, Alain The meaning of mathematical text. Critical review: Catherine Goldstein's *A theorem of Fermat and its readers* [Presses Univ. Vincennes, Saint-Denis, 1995; MR 97c:01020]. (French) **2001j:01023a**
Horiuchi, Annick Sur la recomposition du paysage mathématique japonais au début de l'époque Meiji [Zbl 877.01004]. (English summary) [Reconstructing the Japanese mathematical scene at the beginning of the Meiji era]
Houzel, Christian Bourbaki et après Bourbaki. [Bourbaki and after Bourbaki] **2001b:01029**
Kirwan, Frances C. Mathematics: the right choice? (*see* **2000m:00017**)
Kjeldsen, Tinne Hoff A contextualized historical analysis of the Kuhn-Tucker theorem in nonlinear programming: the impact of World War II. (English and French summaries) **2001j:01037**
Koole, Ger *see* **Alberts, Gerard, 2001j:00021**
(McGuinness, Brian) *see* **Menger, Karl, 2001f:01051**
Menger, Karl ★ Reminiscences of the Vienna Circle and the Mathematical Colloquium. (English summary) **2001f:01051**
— *see also* **Golland, Louise, 2001e:01030**
Mizzaro, Stefano (*with* Rizio, Paolo Zandegiacomo) An automatically refereed scholarly electronic journal: formal specifications. (English summary) **2001k:00016**
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Newman, M. E. J. The structure of scientific collaboration networks. (English summary)
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(Punzo, Lionello) *see* **Menger, Karl, 2001f:01051**
Rizio, Paolo Zandegiacomo *see* **Mizzaro, Stefano, 2001k:00016**
Schreiber, Peter Johann August Grunert and his *Archiv der Mathematik und Physik* as an integrative factor of everyone's mathematics in the middle of the nineteenth century [Zbl 884.01023]. (French summary)
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(Sklar, Abe) *see* **Menger, Karl, 2001f:01051**
(Smale, Stephen) *see* **Batterson, Steve, 2001g:01036**
Visintin, Augusto On mathematical communication. (Italian) **2001h:00015**
(Zoutendijk, G.) *see* **Alberts, Gerard, 2001j:00021**

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Biography:
Menger, Karl *see* **Golland, Louise, 2001e:01030** *and* **Menger, Karl, 2001f:01051**
Ockham, William *see* **Courtenay, William J., (2001f:00016)**
Smale, Stephen *see* **Batterson, Steve, 2001g:01036**

01A85 Historiography

D'Ambrosio, Ubiratan A historiographical proposal for non-western mathematics.
Dhombres, Jean The analysis of the synthesis of the analysis... two moments of a chiasmus: Viète and Fourier. **2001i:01073**
Epple, Moritz Genies, Ideen, Institutionen, mathematische Werkstätten: Formen der Mathematikgeschichte. (German summary) [Geniuses, ideas, institutions, mathematical workshops: forms of writing mathematical history]
(Fourier, J.) *see* **Dhombres, Jean, 2001i:01073**
(Koyré, Alexandre) *see* **Stump, James B.**
Neuenschwander, Erwin Zur Historiographie der Mathematik in der Schweiz. [On the historiography of mathematics in Switzerland] **2001k:01068**
Stump, James B. History of science through Koyré's lenses. (English summary)
(Viète, François) *see* **Dhombres, Jean, 2001i:01073**

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Chemla, Karine Commentaries, editions and other secondary texts: what is the stake for the history of mathematics? Reflections inspired by Reviel Netz's note: "Deuteronomic texts: late antiquity and the history of mathematics" [Rev. Histoire Math. **4** (1998), no. 3, 261–288; MR 2000g:01012]. (French) **2001g:01055**
Jardine, Nick Koyré's Kepler/Kepler's Koyré. **2001k:01024**
(Kepler, Johannes) *see* **Jardine, Nick, 2001k:01024**
(Koyré, Alexandre) *see* **Jardine, Nick, 2001k:01024**
(Netz, Reviel) *see* **Chemla, Karine, 2001g:01055**

01A90 Bibliographic studies

Beckers, Danny J. Old "Archief" (The "Archief" of yesteryear). (Dutch)
Bru, Bernard Sur les plis cachetés. [On sealed folders]
Chemla, Karine Commentaries, editions and other secondary texts: what is the stake for the history of mathematics? Reflections inspired by Reviel Netz's note: "Deuteronomic texts: late antiquity and the history of mathematics" [Rev. Histoire Math. **4** (1998), no. 3, 261–288; MR 2000g:01012]. (French) **2001g:01055**
(de La Vallée Poussin, Charles-Jean) *see* **Mawhin, Jean, (2001i:01071)**
Mawhin, Jean A note of de La Vallée Poussin on the prime number theorem in a publication of von Mangoldt. (*see* **2001i:01071**)
(Netz, Reviel) *see* **Chemla, Karine, 2001g:01055**
Schubring, Gert Mathematische Wörterbücher des 18. Jahrhunderts. (English and French summaries) [Mathematical dictionaries of the 18th century] **2001e:01038**
Valdés Castro, Concepción Remarks concerning the first Cuban journal of physico-mathematical sciences (1942–1959). (Spanish. English and Spanish summaries)
Yor, Marc Présentation du pli cacheté. [Presentation of the sealed folder]

Items with secondary classifications in 01A90

(Artin, Emil) *see* **Ullrich, Peter[1], 2001m:01038**
(Bernoulli, Jacob I) *see* **Scriba, Christoph J.**
(Copernicus, Nicolaus) *see* **Hamel, Jürgen, (2001c:01001)**
Dvurečenskij, Anatolij (*with* Pulmannová, Sylvia) 50 years of Mathematica Slovaca 1951–2001.
Hamel, Jürgen Die erste deutsche Übersetzung des Hauptwerkes von Nicolaus Copernicus um 1586. [The first German translation of the principal work of Nicolaus Copernicus around 1586] (*see* **2001c:01001**)
Pulmannová, Sylvia *see* **Dvurečenskij, Anatolij**
Scriba, Christoph J. Rezensionsessay: *Die Werke von Jakob Bernoulli*. [Book review: *The works of Jakob Bernoulli*]
Ullrich, Peter[1] Der wissenschaftliche Nachlaß Emil Artins. [The scientific Nachlass of Emil Artin]
— Emil Artins unveröffentlichte Verallgemeinerung seiner Dissertation. [Emil Artin's unpublished generalization of his dissertation] **2001m:01038**

01A99 Miscellaneous topics

Aigner, Martin Die Geometrie der Welt. [The geometry of the world]
Bérczi, Szaniszló Katachi U symmetry in the ornamental art of the last thousands of years of Eurasia. (English summary) (*see* **2001i:00036**)
Fernández Pérez, José Luis (*with* Quirós Gracián, Adolfo) The Fields Medal and the International Congress of Mathematicians. (Spanish)
(della Francesca, Piero) *see* **Longo, Placido, 2001i:01074**
(Frege, Gottlob) *see* **Laserna, Mario**
Gazalé, Midhat J. ★ Gnomon. (English summary) **2001j:01064**
Gellert, Uwe Mathematics and life: lessons from history. (English summary)
Hackmann, Willem Mathematical instruments. (*see* **2001f:01049**)
(Hilbert, David[1]) *see* **Laserna, Mario**
Hutchison, Keith A strange fact about Aristotelian dynamics. **2001k:01069**
(Kant, Immanuel) *see* **Laserna, Mario**
Kastanis, Nikos ★ Opseis tes neoellinikes mathematikes paideias. (Greek) [Aspects of neo-Hellenic mathematical education] **2001k:01070**
Kleinert, Ernst Virtuelle Welt. (German summary) [Virtual world] **2001j:01065**
Kudlek, Manfred Zur Geschichte der Theoretischen Informatik. [On the history of theoretical information science] **2001m:01074**
Laserna, Mario Kant, Frege, Hilbert and the sources of geometrical knowledge. (English and Spanish summaries)
Leroux, Jean "Picture theories" as forerunners of the semantic approach to scientific theories.
Leti, Giuseppe The birth of statistics and the origins of the new natural science. (English and Italian summaries)
Longo, Placido Piero della Francesca's *Flagellation* between Talete and Gauss. (Italian. English summary) **2001i:01074**
Martí i Artigas, Joan The prehistory of computer science. (Catalan) **2001m:01075**
Pérez Sanz, Antonio Polygonal numbers: a box of surprises with a lot of history. (Spanish) **2001m:01076**
Pogliani, Lionello (*with* Randić, Milan; Trinajstić, Nenad) About one—an inquiry about the meanings and uses of the number one. (English summary) **2001i:01075**
Quirós Gracián, Adolfo *see* **Fernández Pérez, José Luis**
Randić, Milan *see* **Pogliani, Lionello et al., 2001i:01075**
Ritter, James The limits of European mathematics: centres and peripheries [Zbl 876.01065].
Runggaldier, Wolfgang J. On the development of applied mathematics in an interdisciplinary area: mathematical finance. (Italian. Italian summary) **2001k:01071**

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Sufiyarova, I. I. *see* **Zverkina, G. A.**
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Turnbull, David Rationality and the disunity of the sciences.
Van Praag, Roland Les expériences de mesure du "vent d'éther". [Ether drift experiments]
Westfall, Richard Samuel The background to the mathematization of nature. (*see* **2001h:01020**)
Zhang, Hui Min[1] Mathematical conjectures and their influence on the development of mathematics. (Chinese. English and Chinese summaries)
Zverkina, G. A. (*with* Sufiyarova, I. I.) On methods for approximating the circumference by the perimeters of regular polygons. (Russian. English summary)

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Congress:
Mathematicians International Congresses of Mathematicians (ICM). (*see* **2001g:01001**)
Fields Medalists and Rolf Nevanlinna Prize winners Fields Medalists and Rolf Nevanlinna Prize winners. (*see* **2001g:01001**)

Items with secondary classifications in 01A99

Berestovskaya, N. V. History and philosophy of mathematics. (English summary) **2001m:00012**
Châtelet, Gilles ★ Figuring space. (English summary) **2001e:00004**
Corberán, A. (*with* Montes, Francisco) Perverseness and tricks of probability theory. (Spanish)
Dahan Dalmedico, Amy Pur versus appliqué? Un point de vue d'historien sur une "guerre d'images". [Pure versus applied? A historian's point of view about a "war of images"] **2001k:00002**
(Desanti, Jean-Toussaint) *see* **Châtelet, Gilles, 2001e:00004**
Dhombres, Jean The analysis of the synthesis of the analysis... two moments of a chiasmus: Viète and Fourier. **2001i:01073**
Disney, M. J. The case against cosmology. (English summary) **2001h:83111**
Egidi, Rosaria von Wright and "Dante's dream": stages in a philosophical pilgrim's progress. (*see* **2001a:00008**)
Farwig, Reinhard Die (un-)berechenbare Angst des Mathematikers vor dem Fliegen. (German summary) [The mathematician's (un-)predictable fear of flying] **2001k:76003**
(Fomenko, A. T.) *see* **Zaliznyak, A. A., 2001i:00022**
(Fourier, J.) *see* **Dhombres, Jean, 2001i:01073**
Gårding, Lars A philosophical dialogue. Mathematics, life, and death. (Russian)
(Graham, Loren R.) *see* **Ruskai, Mary Beth, 2001k:00008**
Kaplan, Robert L. ★ The nothing that is. (English summary) **2001i:01001**
(Knoespel, Kenneth J.) *see* **Châtelet, Gilles, 2001e:00004**
Kramer, Jörg Der große Satz von Fermat—die Lösung eines 300 Jahre alten Problems. [Fermat's big theorem—the solution of a 300-year-old problem]
Montes, Francisco *see* **Corberán, A.**
Näf, Franz ★ Das Monochord. (German. German summary) [The monochord]
Nieuwland, G. Y. Do mathematical models tell the truth? (Dutch summary)
Novikov, Sergei Petrovich Pseudo-history and pseudo-mathematics: fantasy in our life. Comment on: "Linguistics in the sense of A. T. Fomenko" [Uspekhi Mat. Nauk **55** (2000), no. 2, 162–188; MR 2001i:00022] by A. A. Zaliznyak. (Russian) **2001i:00023**
Radbruch, Knut Mathematische Spuren in der Philosophie. (German summary) [Mathematical traces in philosophy] **2001k:00007**
Rashed, Roshdi The invention of classical scientific modernity. (English summary) **2001f:01021**
Roero, Clara Silvia Mathematics and international language. (Italian) **2001j:00019**
Ruskai, Mary Beth Response to Graham: the quantum view: "Do mathematical equations display social attributes?" [Math. Intelligencer **22** (2000), no. 3, 31–36; MR 2001h:00005]. (English summary) **2001k:00008**
Salanskis, Jean-Michel Analysis, hermeneutics, mathematics. **2001j:00013**
Schweber, Sam (*with* Wächter, Matthias) Complex systems, modelling and simulation.
(Shaposhnikova, Tat'yana) *see* **Gårding, Lars**
(Shore, Robert) *see* **Châtelet, Gilles, 2001e:00004**
Vardi, Ilan What is ancient mathematics? **2001c:00007**
(Viète, François) *see* **Dhombres, Jean, 2001i:01073**
Wächter, Matthias *see* **Schweber, Sam**
(von Wright, Georg Henrik) *see* **Egidi, Rosaria, (2001a:00008)**
Xu, De Yi The computations of π. (Chinese. English and Chinese summaries) **2001k:11268**
Yusupova, G. É. On the sources of Uzbek scientific terminology in the field of geometry. (Russian. English and Uzbek summaries) **2001i:00007**
(Zagha, Muriel) *see* **Châtelet, Gilles, 2001e:00004**
Zaliznyak, A. A. Linguistics in the sense of A. T. Fomenko. (Russian) **2001i:00022**
— *see also* **Novikov, Sergei Petrovich, 2001i:00023**

03–XX Mathematical logic and foundations

03–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Wrightson, Graham A bibliography on analytic tableaux theorem proving.

Items with secondary classifications in 03–00

(Bezdek, James C.) *see* **Fuzzy sets in approximate reasoning and information systems, 2001f:68011**
(Dubois, Didier) *see* **Fuzzy sets in approximate reasoning and information systems, 2001f:68011**
(Prade, Henri) *see* **Fuzzy sets in approximate reasoning and information systems, 2001f:68011**

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Fuzzy sets in approximate reasoning and information systems ★ Fuzzy sets in approximate reasoning and information systems. **2001f:68011**

03–01 Instructional exposition (textbooks, tutorial papers, etc.)

Cameron, Peter J. ★ Sets, logic and categories. (English summary) **2001b:03001**
Carnielli, Walter A. *see* **Epstein, Richard L., 2001c:03001**
Enderton, Herbert B. ★ A mathematical introduction to logic. (English summary) **2001h:03001**
Epstein, Richard L. (*with* Carnielli, Walter A.) ★ Computability. (English summary) **2001c:03001**
— ★ Predicate logic. The semantic foundations of logic. (English summary) **2001c:03002**
Goubault-Larrecq, Jean (*with* Mackie, Ian) ★ Proof theory and automated deduction. (English summary) **2001m:03001**
Gueron, Shay A game-like activity for learning Cantor's theorem.
Kleine Büning, Hans (*with* Lettmann, Theodor) ★ Propositional logic: deduction and algorithms. (English summary) **2001f:03001**
Lettmann, Theodor *see* **Kleine Büning, Hans, 2001f:03001**
Mackie, Ian *see* **Goubault-Larrecq, Jean, 2001m:03001**
(Reitmaier, Frank) *see* **Rothmaler, Philipp, 2001h:03002**
Rothmaler, Philipp ★ Introduction to model theory. (English summary) **2001h:03002**
Shoenfield, Joseph R. ★ Mathematical logic. (English summary) **2001h:03003**
Simmons, Harold ★ Derivation and computation. (English summary) **2001i:03001**

Items with secondary classifications in 03–01

(Carnielli, Walter A.) *see* **Epstein, Richard L., 2001c:03017**
(D'Ottaviano, Itala Maria Loffredo) *see* **Epstein, Richard L., 2001c:03017**
Epstein, Richard L. ★ Propositional logics. The semantic foundations of logic. (English summary) **2001c:03017**
Felscher, Walter ★ Lectures on mathematical logic. Vol. II. Calculi for derivations and deductions. **2001m:03002**
Hansson, Sven-Ove ★ A textbook of belief dynamics. (English summary) **2001b:03019a**
— ★ A textbook of belief dynamics. **2001b:03019b**
Holmes, M. Randall ★ Elementary set theory with a universal set. (English summary) **2001c:03089**
(Krajewski, Stanisław) *see* **Epstein, Richard L., 2001c:03017**
Lu, Zhongwan ★ Mathematical logic for computer science. **2001m:68001**
(Maddux, Roger D.) *see* **Epstein, Richard L., 2001c:03017**
Nguyen, Hung Trung (*with* Walker, Elbert A.) ★ A first course in fuzzy logic. (English summary) **2001i:03054**
Oberschelp, Arnold Was ist allgemeine Mengenlehre? (German summary) [What is general set theory?] (*see* **2001d:68004**)
Schwichtenberg, Helmut *see* **Troelstra, A. S., 2001d:03146**
Shoenfield, Joseph R. ★ Recursion theory. **2001m:03078**
Troelstra, A. S. (*with* Schwichtenberg, Helmut) ★ Basic proof theory. (English summary) **2001d:03146**
Walker, Elbert A. *see* **Nguyen, Hung Trung, 2001i:03054**

03–02 Research exposition (monographs, survey articles)

Akama, Seiki Recent issues in logic, language and computation. (*see* **2001e:03005**)
Birkedal, Lars ★ Developing theories of types and computability via realizability. (English summary) **2001k:03001**
Felscher, Walter ★ Lectures on mathematical logic. Vol. I. Set theoretical logic—the algebra of models. (English summary) **2001k:03002**
— ★ Lectures on mathematical logic. Vol. II. Calculi for derivations and deductions. **2001m:03002**
Friedman, Sy D. ★ Fine structure and class forcing. **2001g:03001**
Kusraev, A. G. (*with* Kutateladze, Semën Samsonovich) ★ Boolean valued analysis. (English summary) **2001i:03002**
Kutateladze, Semën Samsonovich *see* **Kusraev, A. G., 2001i:03002**
Woodin, W. Hugh ★ The axiom of determinacy, forcing axioms, and the nonstationary ideal. **2001e:03001**

Items with secondary classifications in 03–02

Amor Montaño, José Alfredo ★ Compacidad en la lógica de primer orden y su relación con el teorema de completud. (Spanish. Spanish summary) [Compactness in first-order logic and its relation to the theorem of completeness] **2001k:03012**
Arratia-Quesada, Argimiro A. ★ Introducción a la teoría descriptiva de la computabilidad. (Spanish) [Introduction to descriptive computability theory] **2001j:68047**
Ash, C. J. (*with* Knight, Julia F.) ★ Computable structures and the hyperarithmetical hierarchy. **2001k:03090**
Barwise, Kenneth Jon (*with* Perry, John) ★ Situations and attitudes. (English summary) **2001h:03051**
Béziau, Jean-Yves *see* **da Costa, Newton C. A. et al., 2001e:03057**
Bueno, Otávio *see* **da Costa, Newton C. A. et al., 2001e:03057**
Cignoli, Roberto L. O. (*with* D'Ottaviano, Itala Maria Loffredo; Mundici, Daniele) ★ Algebraic foundations of many-valued reasoning. (English summary) **2001j:03114**
da Costa, Newton C. A. (*with* Béziau, Jean-Yves; Bueno, Otávio) ★ Elementos de teoria paraconsistente de conjuntos. (Portuguese. Portuguese summary) [Elements of paraconsistent set theory] **2001e:03057**
D'Ottaviano, Itala Maria Loffredo *see* **Cignoli, Roberto L. O. et al., 2001j:03114**
Hasle, Per F. V. *see* **Øhrstrøm, Peter, 2001g:03031**
Jacobs, Bart ★ Categorical logic and type theory. **2001b:03077**
(Klein, Moses) *see* **Poizat, Bruno, 2001a:03072**
Knight, Julia F. *see* **Ash, C. J., 2001k:03090**
Loeb, Peter Albert An introduction to nonstandard analysis. **2001j:03120**
— *see also* **Nonstandard analysis for the working mathematician, 2001e:03006**
Močkoř, Jiří *see* **Novák, Vilém et al., 2001a:03068**
Mundici, Daniele *see* **Cignoli, Roberto L. O. et al., 2001j:03114**
Novák, Vilém (*with* Perfil'eva, I. G.; Močkoř, Jiří) ★ Mathematical principles of fuzzy logic. (English summary) **2001a:03068**
Odifreddi, Piergiorgio ★ Classical recursion theory. Vol. II. **2001b:03040**
Øhrstrøm, Peter (*with* Hasle, Per F. V.) ★ Temporal logic. **2001g:03031**
(Osswald, Horst) *see* **Loeb, Peter Albert, 2001j:03120**
Peretyat'kin, Mikhail Finitely axiomatizable theories and similarity relations. **2001c:03063**
Perfil'eva, I. G. *see* **Novák, Vilém et al., 2001a:03068**
Perry, John *see* **Barwise, Kenneth Jon, 2001h:03051**
Pinkal, Manfred ★ Logic and lexicon. (English summary) **2001f:03062**
Poizat, Bruno ★ A course in model theory. (English summary) **2001a:03072**
Royakkers, Lambèr M. M. ★ Extending deontic logic for the formalisation of legal rules. (English summary) **2001j:03035**
Shelah, Saharon On what I do not understand (and have something to say), model theory. (English summary) **2001a:03073**
(Simmons, Geoffrey) *see* **Pinkal, Manfred, 2001f:03062**
Simpson, Stephen G. ★ Subsystems of second order arithmetic. (English summary) **2001i:03126**
Varzi, Achille C. ★ An essay in universal semantics. (English summary) **2001i:03023**
Wagner, Frank O. ★ Simple theories. (English summary) **2001b:03035**
(Wolff, Manfred P. H.) *see* **Nonstandard analysis for the working mathematician, 2001e:03006**

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Nonstandard analysis for the working mathematician ★ Nonstandard analysis for the working mathematician. **2001e:03006**

03–03 Historical (must also be assigned at least one classification number from Section 01)

Aczel, Amir D. ★ The mystery of the aleph. (English summary) **2001i:03003**
Anellis, Irving H. Tarski's development of Peirce's logic of relations. (*see* **2001a:03007**)
Bach, Craig N. Tarski's 1936 account of logical consequence. **2001f:03002**
Bazhanov, V. A. Toward the reconstruction of the early history of paraconsistent logic: the prerequisites of N. A. Vasiliev's imaginary logic.
Bell, John L. Hermann Weyl on intuition and the continuum. (English summary) **2001j:03001**
Blizard, Wayne D. Updates and corrections to: "The development of multiset theory" [Modern Logic **1** (1991), no. 4, 319–352; MR 92i:04001a; ibid **2** (1991) no. 2, 219; MR 92i:04001b].
(Bonk, Thomas) *see* **Carnap, Rudolf, 2001f:03003**
(Boole, George) *see* **Van Evra, James W.; Corcoran, John; Hailperin, Theodore; Panteki, Maria; Grattan-Guinness, Ivor; Nambiar, Sriram; Peckhaus, Volker** *and* **Vassallo, Nicla**
Borowik, Piotr (*with* Kurkowski, Mirosław) Some results of Kazimierz Kuratowski in formal logic. (Polish) (*see* **2000i:01003**)
Brady, Geraldine From the algebra of relations to the logic of quantifiers. (*see* **2001a:03007**)
Brunning, Jacqueline Genuine triads and teridentity. (*see* **2001a:03007**)
Burch, Robert W. Peirce on the application of relations to relations. (*see* **2001a:03007**)
— Peirce's reduction thesis. (*see* **2001a:03007**)
Burks, Arthur W. Logic, learning, and creativity in evolution. (*see* **2001a:03007**)
(Cantor, Georg) *see* **Aczel, Amir D., 2001i:03003**
Carnap, Rudolf ★ Untersuchungen zur allgemeinen Axiomatik. (German. German summary) [Investigations on general axiomatics] **2001f:03003**
— *see also* **Carus, A. W., (2001d:03009)**
Carus, A. W. Carnap, syntax, and truth. (*see* **2001d:03009**)
Cégielski, Patrick Un fondement des mathématiques. (English and French summaries) [A foundation for mathematics] **2001c:03003**
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03B30 Foundations of classical theories (including reverse mathematics) [see also 03F35]

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03B35 Mechanization of proofs and logical operations [see also 68T15]

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03C64 Model theory of ordered structures; o-minimality

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03C65 Models of other mathematical theories

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03C68 Other classical first-order model theory

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Morozov, A. S. Σ-set of natural numbers not enumerable by natural numbers. (Russian. Russian summary) **2001m:03087**

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Degen, J. W. Complete infinitary type logics. (English summary) **2001a:03018**
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Grossberg, Rami (*with* Lessmann, Olivier) Dependence relation in pregeometries. (English summary) **2001m:03072**
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03C80 Logic with extra quantifiers and operators [see also 03B42, 03B44, 03B45, 03B48]

Caicedo, Xavier (*with* Krynicki, Michał) Quantifiers for reasoning with imperfect information and Σ^1_1-logic. (English summary) **2001b:03037**
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Ivanov, Alexandre A. Generic expansions of ω-categorical structures and semantics of generalized quantifiers. **2001i:03081**
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Luosto, Kerkko Ramsey theory is needed for solving definability problems of generalized quantifiers. **2001d:03094**
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Mostowski, Marcin Computational semantics for monadic quantifiers. (English summary) **2001d:68134**
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Comon, Hubert Sequentiality, monadic second-order logic and tree automata. (English summary) **2001i:68084**
Courcelle, Bruno (*with* Olariu, Stephan) Upper bounds to the clique width of graphs. (English summary) **2001e:68145**
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— (*with* Makowsky, J. A.; Rotics, Udi) Linear time solvable optimization problems on graphs of bounded clique-width. (English summary) **2001e:68146**
Flum, Jörg Tree-decompositions and the model-checking problem.
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Mints, Grigorii Efroimovich Cut-elimination for simple type theory with an axiom of choice. (English summary) **2001g:03104**
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03C90 Nonclassical models (Boolean-valued, sheaf, etc.)

Gutman, A. E. (*with* Losenkov, G. A.) Functional representation of a Boolean-valued universe. (Russian. Russian summary)
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— (*with* Miraglia, Francisco) Modules in the category of sheaves over quantales. (English summary) **2001m:18004**
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03C98 Applications of model theory [see also 03C60]

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03Dxx Computability and recursion theory

Odifreddi, Piergiorgio ★ Classical recursion theory. Vol. II. **2001b:03040**
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03D03 Thue and Post systems, etc.

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Ferretti, C. (*with* Mauri, Giancarlo; Kobayashi, Satoshi[2]; Yokomori, Takashi) On the universality of Post and splicing systems. (English summary) **2001k:68069**
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Thue, Axel *see* **Steinby, Magnus, 2001k:68063**

03D05 Automata and formal grammars in connection with logical questions [see also 68Q45, 68Q70, 68R15]

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Kaller, D. Definability equals recognizability of partial 3-trees and k-connected partial k-trees. (English summary) **2001b:03041**
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Ilie, Lucian On lengths of words in context-free languages. (English summary) **2001e:68102**
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Hamkins, Joel David (*with* Lewis, Andrew M.) Infinite time Turing machines. (English summary) **2001g:03072**
Jiang, Tao[1] (*with* Li, Ming[1]; Ravikumar, Balasubramanian; Regan, Kenneth W.) Computability. (*see* **2001f:68001**)
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Margenstern, Maurice (*with* Pavlotskaya, Liudmila) On functions, computables by Turing machines. (English summary) (*see* **2001b:03005**)
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Byrnes, John *see* **Sieg, Wilfried, 2001d:03018**
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Paolini, Luca (*with* Ronchi Della Rocca, Simona) Call-by-value solvability. (English summary) **2001c:03030**
Raatikainen, Panu Algorithmic information theory and undecidability. **2001i:68069**
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03D15 Complexity of computation [see also 68Q15, 68Q17]

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Grädel, Erich On the restraining power of guards. (English summary) **2001h:03071**
Jahn, Michael A. Implicit measurements of dynamic complexity properties and splittings of speedable sets. (English summary) **2001h:03072**
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Blass, Andreas (*with* Gurevich, Yuri; Shelah, Saharon) Choiceless polynomial time. (English summary) **2001a:68036**
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03D20 Recursive functions and relations, subrecursive hierarchies

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03D25 Recursively (computably) enumerable sets and degrees

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Ding, De Cheng (*with* Qian, Lei) Lattice embedding into d-r.e. degrees preserving 0 and 1. **2001k:03087**
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Durnev, V. G. (*with* Zetkina, O. V.) Undecidability of certain restricted element-subgroup theories. (Russian) **2001a:03088**
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Lempp, Steffen Decidability and undecidability in the enumerable Turing degrees. (English summary) **2001f:03075**
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03D28 Other Turing degree structures

Arslanov, Marat M. (*with* Cooper, S. Barry; Li, Angsheng) There is no low maximal d.c.e. degree. (English summary) **2001e:03076**
Cooper, S. Barry Local degree theory. **2001i:03087**

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Odifreddi, Piergiorgio Strong reducibilities, again. **2001d:03105**
Slaman, Theodore A. (*with* Sorbi, Andrea) Quasi-minimal enumeration degrees and minimal Turing degrees. (English summary) **2001a:03092**
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03D30 Other degrees and reducibilities

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03D35 Undecidability and degrees of sets of sentences

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Rubin, Matatyahu (*with* Koppelberg, Sabine) A superatomic Boolean algebra with few automorphisms. (English summary) **2001m:03090**
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Brendle, Jörg Martin's axiom and the dual distributivity number. (English summary) **2001c:03084**
— (*with* Just, Winfried; Laflamme, Claude) On the refinement and countable refinement numbers. (English summary) **2001i:03105**
Cichoń, Jacek (*with* Krawczyk, Adam; Majcher-Iwanow, Barbara; Węglorz, Bogdan) Dualization of the van Douwen diagram. (English summary) **2001m:03098**
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Jensen, Ronald B. (*with* Zeman, Martin) Smooth categories and global $\square$. (English summary) **2001f:03102**
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Kadane, Joseph B. *see* **Seidenfeld, Teddy et al., 2001b:60007**
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Koszmider, Piotr On strong chains of uncountable functions. (English summary) **2001g:03091**
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Larson, Paul Martin's maximum and the $\mathbf{P}_{\max}$ axiom. (English summary) **2001k:03107**
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Matsubara, Yo Non-stationary ideals and the universe of sets [translation of Sūgaku **51** (1999), no. 1, 18–33; 1690762]. (*see* **2001m:00026**)
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Shelah, Saharon (*with* Spinas, Otmar) On incomparability and related cardinal functions on ultraproducts of Boolean algebras. (English summary) **2001k:03109**
— (*with* Spinas, Otmar) The distributivity numbers of $\mathcal{P}(\omega)$/fin and its square. (English summary) **2001f:03095**
— Constructing Boolean algebras for cardinal invariants. (English summary) **2001m:03088**
— (*with* Väisänen, Pauli) On the number of $L_{\infty\omega_1}$-equivalent non-isomorphic models. (English summary) **2001g:03070**
— *see also* **Rosłanowski, Andrzej, 2001a:03126**
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Zhang, Yi[12] Permutation groups and covering properties. (English summary) **2001j:20004**
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Gitik, Moti (*with* Löwe, Benedikt) Cofinalities of linear orders. (English summary) **2001d:06001**
Gueron, Shay A game-like activity for learning Cantor's theorem.
Komjáth, Péter Some remarks on the partition calculus of ordinals. **2001g:03082**
Löwe, Benedikt *see* **Gitik, Moti, 2001d:06001**
Schindler, Ralf-Dieter Weak covering and the tree property. (English summary) **2001b:03052**
Shannon, Gary P. Some definitions of the "smallest infinity". (English summary) **2001f:03097**
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03E15 Descriptive set theory [see also 28A05, 54H05]

Adams, Scot (*with* Kechris, Alexander S.) Linear algebraic groups and countable Borel equivalence relations. **2001g:03086**
Ambos-Spies, Klaus (*with* Reimann, Jan) Effective Baire category concepts. (English summary) **2001h:03085**
Andretta, Alessandro (*with* Camerlo, Riccardo; Hjorth, Greg) Conjugacy equivalence relation on subgroups. (English summary) **2001m:03091**
— (*with* Marcone, Alberto) Projective sets and ordinary differential equations. (English summary) **2001f:03092**
Balcerzak, Marek (*with* Darji, Udayan B.) Some examples of true $F_{\sigma\delta}$ sets. (English summary) **2001k:03096**
Bartoszyński, Tomek A note on duality between measure and category. (English summary) **2001d:03116**

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Camerlo, Riccardo (*with* Gao, Su) The completeness of the isomorphism relation for countable Boolean algebras. (English summary) **2001k:03097**
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Christensen, Jens Peter Reus (*with* Kanovei, V. G.; Reeken, Michael) On Borel orderable groups. (English summary) **2001m:03092**
Darji, Udayan B. *see* **Balcerzak, Marek, 2001k:03096**
Debs, Gabriel (*with* Saint Raymond, Jean) Cofinal $\mathbf{\Sigma}^1_1$ and $\mathbf{\Pi}^1_1$ subsets of ω^ω. (English summary) **2001g:03087**
— (*with* Saint Raymond, Jean) Compact covering mappings and cofinal families of compact subsets of a Borel set. (English summary) **2001k:03098**
Farah, Ilijas Ideals induced by Tsirelson submeasures. (English summary) **2001b:03047**
— Liftings of homomorphisms between quotient structures and Ulam stability. **2001e:03085**
Fujita, Hiroshi P. A measure theoretic basis theorem for Π^1_2. (English summary) **2001a:03100**
— A weak basis theorem for Π^1_2 sets of positive measure. (English summary) (*see* **2001d:03007**)
Gao, Su Coding subset shift by subgroup conjugacy. (English summary) **2001j:03086**
— A dichotomy theorem for mono-unary algebras. (English summary) **2001a:03101**
— The action of $SL(2, \mathbb{Z})$ on the subsets of $\mathbb{Z}^2$. (English summary) **2001m:03093**
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Hauser, Kai (*with* Woodin, W. Hugh) Π^1_3 sets and Π^1_3 singletons. (English summary) **2001i:03101**
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Hjorth, Greg Continuous images of coanalytic sets. (English summary) **2001c:03080**
— Wildness in the product groups. (English summary) **2001h:03087**
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Kanovei, V. G. (*with* Reeken, Michael) On Baire measurable homomorphisms of quotients of the additive group of the reals. (English summary) **2001f:03093**
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Reimann, Jan *see* **Ambos-Spies, Klaus, 2001h:03085**
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Scheepers, Marion Finite powers of strong measure zero sets. (English summary) **2001m:03096**
Slaman, Theodore A. Recursion theory in set theory. **2001e:03087**
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Chaatit, Fouad (*with* Rosenthal, Haskell P.) On differences of semi-continuous functions. (English summary) **2001k:26004**
Chalons, Christophe[2] A unique integer associated to each mapping from E^ω to ω. (English and French summaries) **2001i:03098**
Costantini, Camillo (*with* Marcone, Alberto) Extensions of functions which preserve the continuity on the original domain. (English summary) **2001b:54019**
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Foreman, Matthew A descriptive view of ergodic theory. **2001h:37003**
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Hauser, Kai Definable sets of real numbers, infinite games and core model theory. (English summary) **2001g:03093**
Hjorth, Greg Around nonclassifiability for countable torsion free abelian groups. (English summary) **2001c:20113**
Jockusch, Carl G., Jr. *see* **Cenzer, Douglas, 2001h:03074**
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Keleti, Tamás The Dynkin system generated by the large balls of $\mathbb{R}^n$. (English summary) **2001b:28003**
Kharazishvili, A. B. ★ Strange functions in real analysis. (English summary) **2001h:26001**
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Laflamme, Claude (*with* Scheepers, Marion) Combinatorial properties of filters and open covers for sets of real numbers. (English summary) **2001f:03091**
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Rudominer, Mitch The largest countable inductive set is a mouse set. (English summary) **2001h:03099**
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Schindler, Ralf-Dieter Strong cardinals and sets of reals in $L_{\omega_1}(\mathbf{R})$. (English summary) **2001i:03110**
Shelah, Saharon Covering of the null ideal may have countable cofinality. (English summary) **2001m:03101**
Sinel'shchikov, S. D. *see* **Golodets, Valentin Ya. et al., 2001g:37003**
Wang, Guo Jun[1] (*with* Wang, Wei[14]) Generalization of the Scheeffer's theorem. (English summary) **2001h:54053**
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Descriptive Set Theory and Dynamical Systems ★ Descriptive set theory and dynamical systems. **2001b:37004**

03E17 Cardinal characteristics of the continuum

Brendle, Jörg Martin's axiom and the dual distributivity number. (English summary) **2001c:03084**
Cichoń, Jacek (*with* Krawczyk, Adam; Majcher-Iwanow, Barbara; Węglorz, Bogdan) Dualization of the van Douwen diagram. (English summary) **2001m:03098**
Di Prisco, Carlos Augusto (*with* Llopis, Jimena; Todorčević, Stevo) Borel partitions of products of finite sets and the Ackermann function. (English summary) **2001m:03099**
Kamo, Shizuo Cardinal invariants associated with predictors. (English summary) **2001k:03100**
Krawczyk, Adam *see* **Cichoń, Jacek et al., 2001m:03098**
Llopis, Jimena *see* **Di Prisco, Carlos Augusto et al., 2001m:03099**
Majcher-Iwanow, Barbara *see* **Cichoń, Jacek et al., 2001m:03098**
Mildenberger, Heike Toeplitz matrices and convergence. (English summary) **2001k:03101**
Moore, Justin T. Continuous colorings associated with certain characteristics of the continuum. (English summary) **2001f:03094**
Pawlikowski, Janusz Cohen reals from small forcings. (English summary) **2001m:03100**
Shelah, Saharon Covering of the null ideal may have countable cofinality. (English summary) **2001m:03101**
— (*with* Spinas, Otmar) The distributivity numbers of $\mathcal{P}(\omega)$/fin and its square. (English summary) **2001f:03095**
Spinas, Otmar Countable filters on ω. (English summary) **2001h:03091**
— *see also* **Shelah, Saharon, 2001f:03095**
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Blass, Andreas (*with* Mildenberger, Heike) On the cofinality of ultrapowers. (English summary) **2001h:03079**
Ciesielski, Krzysztof[2] (*with* Shelah, Saharon) A model with no magic set. (English summary) **2001h:03094**
Hrušák, M. Selectivity of almost disjoint families. (English summary) **2001k:03093**
Krajči, Stanislav Two remarks on partitions of ω with finite blocks. (English summary) **2001d:03114**
Mildenberger, Heike *see* **Blass, Andreas, 2001h:03079**
Repický, Miroslav Spaces not distinguishing convergences. (English summary) **2001k:54006**
Rosłanowski, Andrzej (*with* Shelah, Saharon) The yellow cake. (English summary) **2001c:26018**
— *see also* **Bartoszyński, Tomek et al., 2001e:03091**
Shelah, Saharon *see* **Rosłanowski, Andrzej, 2001c:26018**; **Bartoszyński, Tomek et al., 2001e:03091** *and* **Ciesielski, Krzysztof[2], 2001h:03094**
Zhang, Yi[12] On a class of m.a.d. families. (English summary) **2001m:03104**

03E20 Other classical set theory (including functions, relations, and set algebra)

Oberschelp, Arnold Was ist allgemeine Mengenlehre? (German summary) [What is general set theory?] (*see* **2001d:68004**)
Pouzet, Maurice (*with* Rosenberg, Ivo G.) Embeddings and absolute retracts of relational systems. (English summary) **2001f:03096**
Pylaev, E. A. *see* **Vysotskiĭ, V. I. et al., 2001a:03103** *and* **2001a:03104**
Rosenberg, Ivo G. *see* **Pouzet, Maurice, 2001f:03096**
Shannon, Gary P. Some definitions of the "smallest infinity". (English summary) **2001f:03097**
Troyan, A. I. *see* **Vysotskiĭ, V. I. et al., 2001a:03103** *and* **2001a:03104**
Vysotskiĭ, V. I. (*with* Pylaev, E. A.; Troyan, A. I.) Analysis of concepts on the set of natural numbers. (Russian. English and Russian summaries) **2001a:03103**
— (*with* Pylaev, E. A.; Troyan, A. I.) Synthesis of concepts on the set of natural numbers. (Russian. English and Russian summaries) **2001a:03104**
Xiao, Zhi Jing (*with* Xiong, Ping) An equivalent form of the Dedekind axiom and its application. I. Also on the unity of the continuous induction, the mathematical induction and the transfinite induction. (English summary) **2001d:03117a**
— (*with* Xiong, Ping) An equivalent form of the Dedekind axiom and its application. II. Also on the unity of the continuous induction, the mathematical induction and the transfinite induction. (English summary) **2001d:03117b**
Xiong, Ping *see* **Xiao, Zhi Jing, 2001d:03117a** *and* **2001d:03117b**

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Fajmon, Břetislav Operations, homomorphism and update versus relational database systems. (English summary)
Goldblatt, Robert Algebraic polymodal logic: a survey. (English summary) **2001i:03135**
Hardy, Darel (*with* Petrich, Mario) Binary relations as lattice isomorphisms. (English summary) **2001c:20134**
Nowik, Andrzej (*with* Weiss, Tomasz) The algebraic sum of a set of strong measure zero and a perfectly meager set revisited. (English summary) **2001m:03095**
Petrich, Mario *see* **Hardy, Darel, 2001c:20134**
Ricci, Gabriele Boolean matrices ... neither Boolean nor matrices. (English summary) **2001d:08001**
Weiss, Tomasz *see* **Nowik, Andrzej, 2001m:03095**
Zemlyachenko, V. N. Arithmetic axiomatics for sets. (Russian. English and Russian summaries) **2001f:03032**

03E25 Axiom of choice and related propositions

Degen, J. W. Pigeonhole and choice principles. (English summary) **2001d:03118**
Diener, Karl-Heinz On κ-hereditary sets and consequences of the axiom of choice. (English summary) **2001h:03092**
Gluschankof, D. The Hahn representation theorem for l-groups in ZFA. **2001f:03098**
Herrlich, Horst (*with* Keremedis, Kyriakos) Products, the Baire category theorem, and the axiom of dependent choice. (English summary) **2001e:03089**
— (*with* Keremedis, Kyriakos) The Baire category theorem and choice. (English summary) **2001e:03088**
Howard, Paul (*with* Keremedis, Kyriakos; Rubin, Jean E.; Stanley, Adrienne) Compactness in countable Tychonoff products and choice. (English summary) **2001c:03085**
Keremedis, Kyriakos The compactness of $2^{\mathbb{R}}$ and the axiom of choice. (English summary) **2001k:03102**
— On Weierstrass compact pseudometric spaces and a weak form of the axiom of choice. (English summary) **2001h:03093**
— (*with* Tachtsis, Eleytherios) Compact metric spaces and weak forms of the axiom of choice. (English summary) **2001k:03103**
— *see also* **Howard, Paul et al., 2001c:03085; Herrlich, Horst, 2001e:03088** *and* **2001e:03089**
Marx, Maarten (*with* Mikulás, Szabolcs) Decidability of cylindric set algebras of dimension two and first-order logic with two variables. (English summary) **2001g:03088**
Mikulás, Szabolcs *see* **Marx, Maarten, 2001g:03088**
Rubin, Jean E. *see* **Howard, Paul et al., 2001c:03085**
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Apter, Arthur W. On a problem of Woodin. (English summary) **2001e:03090**
Ash, J. Marshall (*with* Wang, Gang[2]) Sets of uniqueness of the power of the continuum. (English and Georgian summaries) **2001k:42010**
Coquand, Thierry (*with* Palmgren, Erik) Intuitionistic choice and classical logic. (English summary) **2001i:03024**
Di Prisco, Carlos Augusto (*with* Henle, James M.) Doughnuts, floating ordinals, square brackets, and ultraflitters. **2001g:03081**
Dobbs, David E. On the prime ideals in a commutative ring. (English summary) **2001g:13003**
Eisworth, Todd (*with* Nyikos, Peter J.) Recent applications of totally proper forcing. (English summary) **2001b:03048**
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03E30 Axiomatics of classical set theory and its fragments

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03E35 Consistency and independence results

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— (*with* Cummings, James) Identity crises and strong compactness. (English summary) **2001k:03104**
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Belyakin, N. V. (*with* Ganov, V. A.) The generalized reflection principle. (Russian. Russian summary) **2001i:03104**
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Corazza, Paul Consistency of V = HOD with the wholeness axiom. (English summary) **2001c:03086**
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Hart, Klaas Pieter *see* **Dow, Alan, 2001g:03089**
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Koszmider, Piotr On strong chains of uncountable functions. (English summary) **2001g:03091**
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Larson, Paul Martin's maximum and the $\mathbf{P}_{\max}$ axiom. (English summary) **2001k:03107**
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Leshem, Amir On the consistency of the definable tree property on $\aleph_1$. (English summary) **2001m:03103**
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03E40 Other aspects of forcing and Boolean-valued models

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Kanovei, V. G. On non-wellfounded iterations of the perfect set forcing. (English summary) **2001f:03101**
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Brendle, Jörg How small can the set of generics be? (English summary) **2001a:03099**
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Spinas, Otmar Ramsey and freeness properties of Polish planes. **2001j:03088**
Zapletal, Jindřich Killing ideals and adding reals. (English summary) **2001i:03106**

03E45 Inner models, including constructibility, ordinal definability, and core models

Cunningham, Daniel W. Is there a set of reals not in $K(\mathbf{R})$? (English summary) **2001b:03051**
Hauser, Kai Definable sets of real numbers, infinite games and core model theory. (English summary) **2001g:03093**
— Generic relativizations of fine structure. (English summary) **2001h:03097**
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Mekler, Alan (*with* Roslanowski, Andrzej; Shelah, Saharon) On the p-rank of Ext. (English summary) **2001h:03098**
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Rudominer, Mitch The largest countable inductive set is a mouse set. (English summary) **2001h:03099**
— Inner model operators in $L(\mathbf{R})$. (English summary) **2001g:03094**
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Vickers, J. (*with* Welch, Philip David) On successors of Jónsson cardinals. (English summary) **2001h:03100**
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— *see also* **Vickers, J., 2001h:03100**
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Friedman, Sy D. ★ Fine structure and class forcing. **2001g:03001**
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— A minimal counterexample to universal Baireness. (English summary) **2001i:03102**
Kanovei, V. G. On non-wellfounded iterations of the perfect set forcing. (English summary) **2001f:03101**
Koszmider, Piotr On strong chains of uncountable functions. (English summary) **2001g:03091**
Laver, Richard Reflection of elementary embedding axioms on the $L[V_{\lambda+1}]$ hierarchy. (English summary) **2001m:03106**
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Mitchell, William John Jónsson cardinals, Erdős cardinals, and the core model. (English summary) **2001g:03097**
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Schimmerling, Ernest A finite family weak square principle. **2001i:03109**
Schindler, Ralf-Dieter Strong cardinals and sets of reals in $L_{\omega_1}(\mathbf{R})$. (English summary) **2001i:03110**
— Proper forcing and remarkable cardinals. **2001h:03096**
Shore, Richard A. Natural definability in degree structures. (English summary) **2001m:03081**
Woodin, W. Hugh ★ The axiom of determinacy, forcing axioms, and the nonstationary ideal. **2001e:03001**
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03E47 Other notions of set-theoretic definability

Items with secondary classifications in 03E47

Leshem, Amir On the consistency of the definable tree property on $\aleph_1$. (English summary) **2001m:03103**

03E50 Continuum hypothesis and Martin's axiom

Losada, M. (*with* Todorčević, Stevo) Chains and antichains in Boolean algebras. (English summary) **2001c:03087**
Nambiar, K. K. Visualization of intuitive set theory. (English summary)
Nudel'man, A. S. On the possible solution of the generalized continuum problem. (Russian. Russian summary) **2001f:03104**
Shelah, Saharon The generalized continuum hypothesis revisited. (English summary) **2001g:03095**
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Bagaria, Joan Bounded forcing axioms as principles of generic absoluteness. (English summary) **2001i:03103**
Bonnet, Robert (*with* Rubin, Matatyahu) On well-generated Boolean algebras. (English summary) **2001h:06017**
Brendle, Jörg Martin's axiom and the dual distributivity number. (English summary) **2001c:03084**
Cichoń, Jacek (*with* Krawczyk, Adam; Majcher-Iwanow, Barbara; Węglorz, Bogdan) Dualization of the van Douwen diagram. (English summary) **2001m:03098**
Dow, Alan (*with* Hart, Klaas Pieter) A universal continuum of weight $\aleph$. (English summary) **2001g:54037**
Eisworth, Todd (*with* Nyikos, Peter J.) Recent applications of totally proper forcing. (English summary) **2001b:03048**
— CH and first countable, countably compact spaces. (English summary) **2001k:54010**
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Hindman, Neil (*with* Protasov, Igor Vladimirovich; Strauss, Dona Papert) Strongly summable ultrafilters on abelian groups. (English and Russian summaries) **2001d:22003**
Kolman, Oren Almost disjoint families: an application to linear algebra. (English summary) **2001b:03049**
Komjáth, Péter Limits of transfinite sequences of Baire-2 functions. (English summary) **2001g:03090**
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03F15 Recursive ordinals and ordinal notations

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— Ordinal diagrams for Π_3-reflection. (English summary) **2001k:03128**
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— No feasible monotone interpolation for simple combinatorial reasoning. (English summary) **2001a:03115**
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03F25 Relative consistency and interpretations

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Lindström, Per Interpretability in reflexive theories—a survey. **2001b:03060**
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03F30 First-order arithmetic and fragments

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03F35 Second- and higher-order arithmetic and fragments [see also 03B30]

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Feferman, Solomon (*with* Strahm, Thomas) The unfolding of non-finitist arithmetic. (English summary) **2001i:03125**
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Jäger, Gerhard (*with* Strahm, Thomas) Fixed point theories and dependent choice. (English summary) **2001k:03135**
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Sieg, Wilfried Aspects of mathematical experience. **2001h:03017**
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03F40 Gödel numberings in proof theory

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03F45 Provability logics and related algebras (e.g., diagonalizable algebras) [see also 03B45, 03G25, 06E25]

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03F50 Metamathematics of constructive systems

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— Fragments of Heyting arithmetic. (English summary) **2001m:03120**
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03F52 Linear logic and other substructural logics [see also 03B47]

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03G30 Categorical logic, topoi [see also 18B25, 18C05, 18C10]

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Okada, Mitsuhiro (*with* Scott, P. J.) A note on rewriting theory for uniqueness of iteration. (English summary) **2001k:03027**
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Pollard, Stephen Homeomorphism and the equivalence of logical systems. (English summary) **2001b:03015**
Pynko, Alexej P. Implication systems for many-dimensional logics. (English summary) **2001b:03016**
Surma, Stanisław J. From closure-operatic deductive methodology to non-standard alternatives. **2001a:03020**

03Hxx Nonstandard models [see also 03C62]

03H05 Nonstandard models in mathematics [see also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]

Di Nasso, Mauro On the foundations of nonstandard mathematics. (English summary) **2001e:03118**
Huang, Cheng Gui The external nonstandard analysis. I. (Chinese. English and Chinese summaries) **2001m:03142**
— The external nonstandard analysis. II. (Chinese) **2001m:03143**
— A short proof for the existence of the indivisible continua of Pythagoras, Democritus, Plato and Galileo. (Chinese. English and Chinese summaries) **2001i:03141**
Loeb, Peter Albert An introduction to nonstandard analysis. **2001j:03120**
(Osswald, Horst) *see* **Loeb, Peter Albert**, **2001j:03120**

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— Nonstandard variational calculus with applications to classical mechanics. II. The inverse problem and more. (English summary) **2001c:49005**
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Bohé, Adriana The shock location for a class of sensitive boundary value problems. **2001d:34079**
Diener, Francine (*with* Michel, Franck) Special functions and river phenomenon. (English summary) (*see* **2001d:34002**)
Fenevrol-Perrin, Yvette Intégration en analyse infinitésimale. (French summary) [Integration in infinitesimal analysis] **2001f:28033**
Fleuriot, Jacques D. (*with* Paulson, Lawrence C.) Proving Newton's Propositio Kepleriana using geometry and nonstandard analysis in Isabelle. (English summary) (*see* **2001c:68004**)
Fruchard, Augustin (*with* Schäfke, Reinhard) Exceptional complex solutions of the forced van der Pol equation. (English summary) **2001b:34102**
Gutman, A. E. (*with* Losenkov, G. A.) Functional representation of a Boolean-valued universe. (Russian. Russian summary)
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Jin, Renling (*with* Keisler, H. Jerome) Maharam spectra of Loeb spaces. (English summary) **2001j:28014**
Kanovei, V. G. (*with* Reeken, Michael) A nonstandard set theory in the $\in$-language. (English summary) **2001h:03103**
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Li, Bang-He (*with* Li, Ya-Qing) Some classes of new generalized functions. (English and Chinese summaries) **2001g:46091**
Li, Ya-Qing Lebesgue measures of balls and spheres in infinite-dimensional Euclidean spaces. (English and Chinese summaries) **2001g:28034**
— The harmonic product of $\delta(x_1, \ldots, x_n)$ and $\delta(x_1)$ and two combinatorial identities. (English summary) **2001k:46062**
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(Loeb, Peter Albert) *see* **Nonstandard analysis for the working mathematician**, **2001e:03006**
Losenkov, G. A. *see* **Gutman, A. E.**
Lyantse, V. E. Shadow of a measure. (English and Italian summaries) **2001g:28035**
Maffini, Achille The origins of nonstandard analysis: four stages in the world of actual infinity and infinitesimals. (Italian. English, French and Italian summaries) **2001a:01003**
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Murakami, Masahiko Standardization principle of nonstandard universes. (English summary) **2001g:03071**
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Osswald, Horst (*with* Sun, Yeneng) Measure and probability theory and applications. **2001i:28023**
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Palmgren, Erik Constructive nonstandard representations of generalized functions. (English summary) **2001m:03127**
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Salanskis, Jean-Michel La logique comme bord des mathématiques. [Logic as the boundary of mathematics] **2001e:03017**
Salbany, Sergio (*with* Todorov, Todor Dimitrov[1]) Nonstandard analysis in topology: nonstandard and standard compactifications. (English summary) **2001m:54046**
Schäfke, Reinhard *see* **Fruchard, Augustin**, **2001b:34102**
Schlesinger, Karl-Georg Supermanifolds and sequences of computable structures: a link via a nonstandard extension of differential geometry. (English summary) **2001c:58005**
Sun, Yeneng *see* **Osswald, Horst**, **2001i:28023**
Todorov, Todor Dimitrov[1] Back to classics: teaching limits through infinitesimals. (English summary)
— *see also* **Salbany, Sergio**, **2001m:54046**
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Wolff, Manfred P. H. Functional analysis. **2001i:46118**
— *see also* **Nonstandard analysis for the working mathematician**, **2001e:03006**
Zeng, Guang Xing Nonstandard decision methods for the solvability of real polynomial equations. (English summary) **2001f:12003**

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03H10 Other applications of nonstandard models (economics, physics, etc.)

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Bagarello, Fabio Nonstandard variational calculus with applications to classical mechanics. I. An existence criterion. (English summary) **2001c:49004**
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Fleuriot, Jacques D. (*with* Paulson, Lawrence C.) Mechanizing nonstandard real analysis. (English summary) **2001j:03022**
Landers, D. (*with* Rogge, Lothar) Nonstandard criteria for Borel-measurability. (English summary) **2001g:28006**
(Loeb, Peter Albert) *see* **Nonstandard analysis for the working mathematician**, **2001e:03006**
Osswald, Horst (*with* Sun, Yeneng) Measure and probability theory and applications. **2001i:28023**
Paulson, Lawrence C. *see* **Fleuriot, Jacques D.**, **2001j:03022**
Rogge, Lothar *see* **Landers, D.**, **2001g:28006**
Rubio, J. E. Optimal control problems with unbounded constraint sets. (English summary) **2001e:49059**
Sun, Yeneng Economics and nonstandard analysis. **2001h:91051**
— *see also* **Osswald, Horst**, **2001i:28023**
(Wolff, Manfred P. H.) *see* **Nonstandard analysis for the working mathematician**, **2001e:03006**

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Nonstandard analysis for the working mathematician ★ Nonstandard analysis for the working mathematician. **2001e:03006**

03H15 Nonstandard models of arithmetic [see also 11U10, 12L15, 13L05]

Fajardo, Sergio Nonstandard analysis and a classification of probability spaces.
Kaye, Richard William (*with* Kotlarski, Henryk) On models constructed by means of the arithmetized completeness theorem. (English summary) **2001j:03121**
Kotlarski, Henryk *see* **Kaye, Richard William**, **2001j:03121**
Palmgren, Erik An effective conservation result for nonstandard arithmetic. (English summary) **2001a:03130**

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Boughattas, Sedki Trois théorèmes sur l'induction pour les formules ouvertes munies de

l'exponentielle. (French summary) [Three theorems on induction of open formulas with exponentials] **2001f:03077**

Chinchilla, Eugenio A model of $\widetilde{R}_3^2$ inside a subexponential time resource. (English summary) **2001b:03061**

Chong, C. T. (*with* Yang, Yue) Computability theory in arithmetic: provability, structure and techniques. (English summary) **2001d:03098**

D'Aquino, Paola (*with* Macintyre, Angus) Non-standard finite fields over $I\Delta_0 + \Omega_1$. (English summary) **2001g:03112**

Hájek, Petr[1] (*with* Paris, J. B.; Shepherdson, John) The liar paradox and fuzzy logic. (English summary) **2001h:03046**

Jin, Renling Applications of nonstandard analysis in additive number theory. (English summary) **2001k:11262**

Kuhlmann, Franz-Viktor (*with* Kuhlmann, Salma) The exponential rank of nonarchimedean exponential fields. (English summary) **2001d:12012**

Kuhlmann, Salma *see* **Kuhlmann, Franz-Viktor, 2001d:12012**

Macintyre, Angus *see* **D'Aquino, Paola, 2001g:03112**

Paris, J. B. *see* **Hájek, Petr[1] et al., 2001h:03046**

Shepherdson, John *see* **Hájek, Petr[1] et al., 2001h:03046**

Yang, Yue *see* **Chong, C. T., 2001d:03098**

05–XX Combinatorics {For finite fields, see 11Txx.}

05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Jackson, David M. (*with* Visentin, Terry I.) ★ An atlas of the smaller maps in orientable and nonorientable surfaces. (English summary) **2001j:05001**
Liebers, Annegret Planarizing graphs—a survey and annotated bibliography. (English summary) **2001m:05001**
Visentin, Terry I. *see* **Jackson, David M., 2001j:05001**

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Andreescu, Titu (*with* Gelca, Răzvan) ★ Mathematical Olympiad challenges. (English summary) **2001a:00002**
Gelca, Răzvan *see* **Andreescu, Titu, 2001a:00002**
(Saul, Mark) *see* **Andreescu, Titu, 2001a:00002**

05–01 Instructional exposition (textbooks, tutorial papers, etc.)

Anderson, Ian ★ A first course in discrete mathematics. (English summary)
Brandstädt, Andreas (*with* Le Van Bang; Spinrad, Jeremy P.) ★ Graph classes: a survey. (English summary) **2001h:05001**
Hilton, Peter (*with* Pedersen, Jean) Relating geometry and algebra in the Pascal triangle, hexagon, tetrahedron, and cuboctahedron. II. Geometry and algebra in higher dimensions: identifying the Pascal cuboctahedron. **2001b:05001**
Imrich, Wilfried (*with* Klavžar, Sandi) ★ Product graphs. (English summary) **2001k:05001**
Klavžar, Sandi *see* **Imrich, Wilfried, 2001k:05001**
Kleitman, Daniel J. On the future of combinatorics. **2001h:05002**
Le Van Bang *see* **Brandstädt, Andreas et al., 2001h:05001**
Merris, Russell ★ Graph theory. (English summary)
(Nash-Williams, Crispin St. J. A.) *see* **Tutte, William T., 2001j:05002**
Pedersen, Jean *see* **Hilton, Peter, 2001b:05001**
Ross, Sheldon M. ★ Topics in finite and discrete mathematics. (English summary)
Spinrad, Jeremy P. *see* **Brandstädt, Andreas et al., 2001h:05001**
Tutte, William T. ★ Graph theory. (English summary) **2001j:05002**
(Winkler, Peter M.) *see* **Imrich, Wilfried, 2001k:05001**

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(Brualdi, Richard A.) *see* **Liu, Bo Lian, 2001m:15001**
Conway, John H. ★ On numbers and games. (English summary) **2001j:00008**
(ben Gerson, Levi) *see* **Simonson, Shai, 2001f:01024**
Haynes, Teresa W. (*with* Hedetniemi, Stephen T.; Slater, Peter J.) ★ Fundamentals of domination in graphs. (English summary) **2001a:05112**
Hedetniemi, Stephen T. *see* **Haynes, Teresa W. et al., 2001a:05112**
Korte, Bernhard (*with* Vygen, Jens) ★ Combinatorial optimization. (English summary) **2001g:90002**
Lai, Hong-Jian *see* **Liu, Bo Lian, 2001m:15001**
Lawler, Eugene ★ Combinatorial optimization. (English summary)
Liu, Bo Lian (*with* Lai, Hong-Jian) ★ Matrices in combinatorics and graph theory. (English summary) **2001m:15001**
Owen, Guillermo ★ Discrete mathematics and game theory. (English summary) **2001e:91002**
Simonson, Shai The missing problems of Gersonides—a critical edition. I. (English, French and Hebrew summaries) **2001f:01024**
Slater, Peter J. *see* **Haynes, Teresa W. et al., 2001a:05112**
Vygen, Jens *see* **Korte, Bernhard, 2001g:90002**

05–02 Research exposition (monographs, survey articles)

Ehrenfeucht, Andrzej (*with* Harju, Tero; Rozenberg, Grzegorz) ★ The theory of 2-structures. **2001i:05001**
Harju, Tero *see* **Ehrenfeucht, Andrzej et al., 2001i:05001**
Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej et al., 2001i:05001**
Stanley, Richard P. Positivity problems and conjectures in algebraic combinatorics. **2001f:05001**

05–03 Historical (must also be assigned at least one classification number from Section 01)

Beschler, Edwin F. Gian-Carlo Rota and the founding of the Journal of Combinatorial Theory. **2001h:05003**
Khomenko, N. P. (*with* Vyvrot, T. M.) Development of the theory of 1-factorizations of graphs at the Institute of Mathematics of the Ukrainian Academy of Sciences. (Ukrainian. Ukrainian summary)
(Rota, Gian-Carlo) *see* **Beschler, Edwin F., 2001h:05003**
Vyvrot, T. M. *see* **Khomenko, N. P.**
Wilson, Robin J. Graph theory. **2001a:05001**

Items with secondary classifications in 05–03

Berge, Claude La théorie des graphes. [Graph theory] **2001k:05054**
(Catlin, Paul) *see* **Hobbs, Arthur M. et al., 2001m:01045**
Fennessey, Eric J. *see* **Larcombe, Peter J., 2001f:05006**
Fernández Gallardo, Pablo (*with* Fernández Pérez, José Luis) "Absolute disorder is impossible": Ramsey's theory. (Spanish) **2001c:05100**
Fernández Pérez, José Luis *see* **Fernández Gallardo, Pablo, 2001c:05100**
Hobbs, Arthur M. (*with* Lai, Hong-Jian; Robertson, Neil) Paul Catlin 1948–1995. **2001m:01045**
Lai, Hong-Jian *see* **Hobbs, Arthur M. et al., 2001m:01045**
Larcombe, Peter J. (*with* Fennessey, Eric J.) On a finite polynomial generating function for Catalan subsequences: an 18th century observation proved. (English summary) **2001f:05006**
(Ramsey, Frank Plumpton) *see* **Fernández Gallardo, Pablo, 2001c:05100**
Robertson, Neil *see* **Hobbs, Arthur M. et al., 2001m:01045**
Rouvray, Dennis H. Perspectives on the molecular microworld.
Wilson, Robin J. Combinatorics: a historical and pedagogical approach. (*see* **2001f:01008**)

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Catlin, Paul A. *see* **Hobbs, Arthur M. et al., 2001m:01045**
Ramsey, Frank Plumpton *see* **Fernández Gallardo, Pablo, 2001c:05100**

05–04 Explicit machine computation and programs (not the theory of computation or programming)

Atici, Mustafa (*with* Stinson, Douglas R.; Wei, Ruizhong) A new practical algorithm for the construction of a perfect hash function. (English summary) **2001k:05002**
Can, Himmet (*with* Hawkins, Lee) A computer program for obtaining subsystems.
Hawkins, Lee *see* **Can, Himmet**
Rücker, Christoph *see* **Rücker, Gerta**
Rücker, Gerta (*with* Rücker, Christoph) Automatic enumeration of all connected subgraphs. (English summary)
Stinson, Douglas R. *see* **Atici, Mustafa et al., 2001k:05002**
Walsh, Timothy R. Loop-free sequencing of bounded integer compositions. (English summary) **2001c:05001**
Wei, Ruizhong *see* **Atici, Mustafa et al., 2001k:05002**

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Dufourd, Jean-François (*with* Puitg, François) Functional specification and prototyping with oriented combinatorial maps. (English summary) **2001b:68142**
Puitg, François *see* **Dufourd, Jean-François, 2001b:68142**
Ruskey, Frank (*with* Sawada, Joe) An efficient algorithm for generating necklaces with fixed density. (English summary) **2001b:05013**
Sawada, Joe *see* **Ruskey, Frank, 2001b:05013**
Zeilberger, Doron The umbral transfer-matrix method. I. Foundations. (English summary) **2001g:05018**

05–06 Proceedings, conferences, collections, etc.

(Barnabei, Marilena) *see* **Umbral calculus and its applications**
(Cameron, Peter J.) *see* **Discrete metric spaces, 2001e:05001**
(Cockayne, Ernest J.) *see* **Papers in honour of Ernest J. Cockayne**
(Du, Ding-Zhu) *see* **Workshop: Computational Graph Theory, 2001c:05002** *and* **Advances in Steiner trees, 2001g:05001**
(Erdős, Paul[1]) *see* **Graph theory** *and* **Paul Erdős and his mathematics**
(Fiedler, Miroslav) *see* **Combinatorics, 2001m:05002** *and* **Graph theory**
(Gupta, Sat N.) *see* **Recent advances in interdisciplinary mathematics, 2001h:05004**
(Hromkovič, Juraj) *see* **Workshop: Graph-Theoretic Concepts in Computer Science, 2001h:05005**
(Kalinowski, R.) *see* **Workshop: "3in1" Graphs '98, 2001a:05003** *and* **Graph theory**
(Kratochvíl, Jan) *see* **Combinatorics, 2001m:05002** *and* **Graph theory**
(Krob, Daniel) *see* **Formal pc.>er series and algebraic combinatorics, 2001f:05002**
(Löwe, Stefan) *see* **Methods of discrete mathematics, 2001f:05003**
(Marczyk, Antoni) *see* **Graph theory**
(Mazzocca, Francesco) *see* **Methods of discrete mathematics, 2001f:05003**
(Melone, Nicola) *see* **Methods of discrete mathematics, 2001f:05003**
(Meszka, Mariusz) *see* **Graph theory**
(Mikhalëv, A. A.) *see* **Formal power series and algebraic combinatorics, 2001f:05002**
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(Mynhardt, C. M.) *see* **Papers in honour of Ernest J. Cockayne**
(Nešetřil, Jaroslav) *see* **Combinatorics, 2001m:05002** *and* **Graph theory**
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(Skupień, Zdzisław) *see* **Workshop: "3in1" Graphs '98, 2001a:05003**
(Smith, J. MacGregor) *see* **Advances in Steiner trees, 2001g:05001**
(Sýkora, Ondrej) *see* **Workshop: Graph-Theoretic Concepts in Computer Science, 2001h:05005**
(Torney, David C.) *see* **Combinatorics and biology, 2001a:05002**
(Wojda, A. Paweł) *see* **Graph theory**
(Woodall, Douglas R.) *see* **Conference: Combinatorial**

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Advances in Steiner trees ★ Advances in Steiner trees. **2001g:05001**
Birthday:
Cockayne, Ernest J. ★ Papers in honour of Ernest J. Cockayne.
Boca Raton, FL ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05002**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05003**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatories, Graph Theory and Computing. **2001i:05004**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05005**

— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05006**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05007**
Braunschweig ★ Methods of discrete mathematics. **2001f:05003**
Budapest ★ Paul Erdős and his mathematics.
Canterbury ★ 17th British Combinatorial Conference.
Combinatorics ★ Combinatorics. **2001m:05002**
Combinatorics and biology ★ Combinatorics and biology. **2001a:05002**
Conference:
Combinatorial ★ 17th British Combinatorial Conference.
Combinatorics, Information Theory and Statistics ★ Recent advances in interdisciplinary mathematics. **2001h:05004**
Discrete Metric Spaces ★ Discrete metric spaces. **2001e:05001**
Formal Power Series and Algebraic Combinatorics ★ Formal power series and algebraic combinatorics. **2001f:05002**
Cortona ★ Umbral calculus and its applications.
Discrete metric spaces ★ Discrete metric spaces. **2001e:05001**
Festschrift:
Cockayne, Ernest J. ★ Papers in honour of Ernest J. Cockayne.
Formal power series and algebraic combinatorics ★ Formal power series and algebraic combinatorics. **2001f:05002**
Graph theory ★ Graph theory.
— ★ Graph theory.
Kazimierz Dolny ★ Graph theory.
Kowloon ★ Selected papers from the Workshop on Computational Graph Theory. **2001c:05002**
Krynica ★ The Seventh Workshop "3in1" Graphs '98. **2001a:05003**
Los Alamos, NM ★ Combinatorics and biology. **2001a:05002**
Marseille ★ Discrete metric spaces. **2001e:05001**
Memorial Issue:
Erdős, Paul[1] ★ Graph theory.
— ★ Paul Erdős and his mathematics.
Rota, Gian-Carlo ★ Umbral calculus and its applications.
Methods of discrete mathematics ★ Methods of discrete mathematics. **2001f:05003**
Moscow ★ Formal power series and algebraic combinatorics. **2001f:05002**
Papers in honour of Ernest J. Cockayne ★ Papers in honour of Ernest J. Cockayne.
Paul Erdős and his mathematics ★ Paul Erdős and his mathematics.
Portland, ME ★ Recent advances in interdisciplinary mathematics. **2001h:05004**
Prague ★ Combinatorics. **2001m:05002**
— ★ Graph theory.
Proceedings:
Conference on Combinatorics, Graph Theory and Computing ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05002**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05003**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatories, Graph Theory and Computing. **2001i:05004**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05005**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05006**
— ★ Proceedings of the Thirty-first Southeastern International Conference on Combinatorics, Graph Theory and Computing. **2001i:05007**
Recent advances in interdisciplinary mathematics ★ Recent advances in interdisciplinary mathematics. **2001h:05004**
Smolenice Castle ★ International Workshop on Graph-Theoretic Concepts in Computer Science. **2001h:05005**
Symposium:
Combinatorics, Graph Theory, Algorithms and Applications ★ Combinatorics. **2001m:05002**
— ★ Graph theory.
Umbral calculus and its applications ★ Umbral calculus and its applications.
Workshop:
Computational Graph Theory ★ Selected papers from the Workshop on Computational Graph Theory. **2001c:05002**
Frontiers of Combinatorics ★ Combinatorics and biology. **2001a:05002**
Graph-Theoretic Concepts in Computer Science ★ International Workshop on Graph-Theoretic Concepts in Computer Science. **2001h:05005**
"3in1" Graphs '98 ★ The Seventh Workshop "3in1" Graphs '98. **2001a:05003**

Items with secondary classifications in 05–06

(Barg, Alexander M.) *see* **Codes and association schemes, 2001i:94001**
(Dean, Nathaniel) *see* **Robust communication networks: interconnection and survivability, 2001c:68011**
(Du, Ding-Zhu) *see* **Discrete mathematical problems with medical applications, 2001f:92002**
(Ehrig, Hartmut) *see* **Handbook: Graph grammars and computing by graph transformation, 2001d:68012**
(Engels, Gregor) *see* **Handbook: Graph grammars and computing by graph transformation, 2001d:68012**
(Fiedler, Miroslav) *see* **Combinatorics, graph theory, algorithms and applications, 2001i:00027**
(Fowler, Patrick W.) *see* **Discrete mathematical chemistry, 2001b:92001**
(Gardy, Danièle) *see* **Mathematics and computer science, 2001f:68013**
(Guttmann, Anthony J.) *see* **On combinatorics and statistical mechanics**
(Hansen, Pierre) *see* **Discrete mathematical chemistry, 2001b:92001**
(Hedayat, S.) *see* **Special Issue: Design combinatorics: in honor of S. S. Shrikhande**
(Horster, Patrick) *see* **Applied mathematics, in particular computer science, 2001d:68004**
(Hsu, D. Frank) *see* **Robust communication networks: interconnection and survivability, 2001c:68011**
(Istrail, Sorin) *see* **Combinatorial molecular biology, 2001c:92001**
(Karloff, Howard) *see* **Symposium: Discrete Algorithms, 2001d:00052**
(Kashiwara, Masaki) *see* **Physical combinatorics, 2001a:00033**
(Kratochvíl, Jan) *see* **Combinatorics, graph theory, algorithms and applications, 2001i:00027**
(Kreowski, Hans-Jörg) *see* **Handbook: Graph grammars and computing by graph transformation, 2001d:68012**
(Litsyn, Simon N.) *see* **Codes and association schemes, 2001i:94001**
(Miwa, Tetsuji) *see* **Physical combinatorics, 2001a:00033**
(Mokkadem, Abdelkader) *see* **Mathematics and computer science, 2001f:68013**
(Moret, Bernard M. E.) *see* **Symposium: Discrete Algorithms, 2001i:00042**
(Nešetřil, Jaroslav) *see* **Combinatorics, graph theory, algorithms and applications, 2001i:00027**
(Pardalos, Panos M.) *see* **Discrete mathematical problems with medical applications, 2001f:92002**
(Paule, Peter) *see* **Formal power series and algebraic combinatorics, 2001a:00029**
(Pevzner, Pavel A.) *see* **Combinatorial molecular biology, 2001c:92001**
(Ravi, Ramamurthy) *see* **Robust communication networks: interconnection and survivability, 2001c:68011**
(Rota, Gian-Carlo) *see* **In memory of Gian-Carlo Rota, 2001c:00026**
(Rozenberg, Grzegorz) *see* **Handbook: Graph grammars and computing by graph transformation, 2001d:68012**
(Shamir, Ron) *see* **Combinatorial molecular biology, 2001c:92001**
(Shen, Hao) *see* **Conference: Designs, Codes and Finite Geometries, 2001j:00026**
(Shrikhande, S. S.) *see* **Special Issue: Design combinatorics: in honor of S. S. Shrikhande**
(Singhi, N. M.) *see* **Special Issue: Design combinatorics: in honor of S. S. Shrikhande**
(Skrypnik, Igor V.) *see* **Identification and modeling of control systems, 2001h:68004**
(Strehl, V.) *see* **Formal power series and algebraic combinatorics, 2001a:00029**
(Tonchev, Vladimir D.) *see* **Special Issue: Design combinatorics: in honor of S. S. Shrikhande**
(Uglov, Denis) *see* **Physical combinatorics, 2001a:00033**
(Vijayan, K. S.) *see* **Special Issue: Design combinatorics: in honor of S. S. Shrikhande**
(Wang, Jie[1]**)** *see* **Discrete mathematical problems with medical applications, 2001f:92002**
(Zheng, Maolin) *see* **Discrete mathematical chemistry, 2001b:92001**

Items listed otherwise than by author

Angewandte Mathematik, insbesondere Informatik ★ Angewandte Mathematik, insbesondere Informatik. (German) [Applied mathematics, in particular computer science] **2001d:68004**
Applied mathematics, in particular computer science ★ Angewandte Mathematik, insbesondere Informatik. (German) [Applied mathematics, in particular computer science] **2001d:68004**
Baltimore, MD ★ Tenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2001i:00042**
Codes and association schemes ★ Codes and association schemes. **2001i:94001**
Colloquium:
Mathematics and Computer Science ★ Mathematics and computer science. **2001f:68013**
Combinatorial molecular biology ★ Combinatorial molecular biology. **2001c:92001**
Combinatorics, graph theory, algorithms and applications ★ Combinatorics, graph theory, algorithms and applications. **2001i:00027**
Conference:
Combinatorics and Physics ★ {Conference on Combinatorics and Physics}. **2001i:00029**
Designs, Codes and Finite Geometries ★ Second Shanghai Conference on Designs, Codes and Finite Geometries. **2001j:00026**
Discrete Analysis and Operations Research ★ Международная Конференция DAOR'2000. (Russian) [International Conference DAOR'2000] **2001i:00031**
Formal Power Series and Algebraic Combinatorics ★ Formal power series and algebraic combinatorics. **2001a:00029**
Discrete mathematical chemistry ★ Discrete mathematical chemistry. **2001b:92001**
Discrete mathematical problems with medical applications ★ Discrete mathematical problems with medical applications. **2001f:92002**
Festschrift:
Shrikhande, S. S. ★ Special issue on design combinatorics: in honor of S. S. Shrikhande.
Formal power series and algebraic combinatorics ★ Formal power series and algebraic combinatorics. **2001a:00029**
Handbook:
Graph grammars and computing by graph transformation ★ Handbook of graph grammars and computing by graph transformation. Vol. 2. Applications, languages and tools. **2001d:68012**
Identification and modeling of control systems ★ Идентификация и моделирование управляющих систем. (Russian) [Identification and modeling of control systems] **2001h:68004**
In memory of Gian-Carlo Rota ★ In memory of Gian-Carlo Rota. **2001c:00026**
Kyoto ★ Physical combinatorics. **2001a:00033**
Los Alamos, NM ★ {Conference on Combinatorics and Physics}. **2001i:00029**
Mathematics and computer science ★ Mathematics and computer science. **2001f:68013**
Memorial Issue:
Rota, Gian-Carlo ★ In memory of Gian-Carlo Rota. **2001c:00026**
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Uglov, Denis B. ★ Physical combinatorics. **2001a:00033**
New Brunswick, NJ ★ Discrete mathematical chemistry. **2001b:92001**
— ★ Robust communication networks: interconnection and survivability. **2001c:68011**
— ★ Discrete mathematical problems with medical applications. **2001f:92002**
Novosibirsk ★ Международная Конференция DAOR'2000. (Russian) [International Conference DAOR'2000] **2001i:00031**
On combinatorics and statistical mechanics ★ On combinatorics and statistical mechanics.
Physical combinatorics ★ Physical combinatorics. **2001a:00033**
Piscataway, NJ ★ Codes and association schemes. **2001i:94001**
Poznan ★ Proceedings of the Ninth International Conference "Random Structures and Algorithms". **2001h:00030**

Proceedings:
Conference "Random Structures and Algorithms" ★ Proceedings of the Ninth International Conference "Random Structures and Algorithms". **2001h:00030**
Progress in Mathematics ★ Physical combinatorics. **2001a:00033**
Robust communication networks: interconnection and survivability ★ Robust communication networks: interconnection and survivability. **2001c:68011**
San Francisco, CA ★ Ninth Annual ACM-SIAM Symposium on Discrete Algorithms. **2001d:00052**
Shanghai ★ Second Shanghai Conference on Designs, Codes and Finite Geometries. **2001j:00026**
Special Issue:
Combinatorial molecular biology ★ Combinatorial molecular biology. **2001c:92001**
Design combinatorics: in honor of S. S. Shrikhande ★ Special issue on design combinatorics: in honor of S. S. Shrikhande.
On combinatorics and statistical mechanics ★ On combinatorics and statistical mechanics.
Symposium:
Discrete Algorithms ★ Ninth Annual ACM-SIAM Symposium on Discrete Algorithms. **2001d:00052**
— ★ Tenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2001i:00042**
Versailles ★ Mathematics and computer science. **2001f:68013**
Vienna ★ Formal power series and algebraic combinatorics. **2001a:00029**
Workshop:
Discrete Mathematical Chemistry ★ Discrete mathematical chemistry. **2001b:92001**
Physical Combinatorics ★ Physical combinatorics. **2001a:00033**
Robust Communication Networks: Interconnection and Survivability ★ Robust communication networks: interconnection and survivability. **2001c:68011**

05Axx Enumerative combinatorics

05A05 Combinatorial choice problems (subsets, representatives, permutations)

Aitken, Wayne Total relative displacement of permutations. (English summary) **2001i:05008**
Alon, Noga (*with* Berman, Kenneth A.; Kleitman, Daniel J.) On a problem in shuffling. (English summary) **2001h:05006**
Archer, Aaron F. A modern treatment of the 15 puzzle. **2001a:05004**
Babson, Eric (*with* West, Julian) The permutations $123p_4\cdots p_m$ and $321p_4\cdots p_m$ are Wilf-equivalent. (English summary) **2001m:05003**
Baïou, Mourad (*with* Balinski, Michel) Many-to-many matching: stable polyandrous polygamy (or polygamous polyandry). (English summary) **2001e:05002**
Balinski, Michel *see* **Baïou, Mourad**, **2001e:05002**
Barcucci, Elena (*with* Del Lungo, Alberto; Pergola, Elisa; Pinzani, Renzo) From Motzkin to Catalan permutations. (English summary) **2001g:05002**
— (*with* Del Lungo, Alberto; Pergola, Elisa; Pinzani, Renzo) Permutations avoiding an increasing number of length-increasing forbidden subsequences. (English summary) **2001b:05002**
Berman, Kenneth A. *see* **Alon, Noga et al., 2001h:05006**
Bohman, Tom (*with* Cooper, Colin; Frieze, Alan M.) Min-wise independent linear permutations. (English summary) **2001b:05003**
Bóna, Miklós (*with* Ehrenborg, Richard) A combinatorial proof of the log-concavity of the numbers of permutations with k runs. (English summary) **2001d:05001**
— (*with* McLennan, Andrew; White, Dennis) Permutations with roots. (English summary) **2001m:05004**
Bousquet-Mélou, Mireille Sorted and/or sortable permutations. (English summary) **2001j:05003**
Chen, Hui[1] General compound map and compound symmetric group. (English and Chinese summaries)
Chudak, Fabián A. (*with* Griggs, J. R.) A new extension of Lubell's inequality to the lattice of divisors. (English summary) **2001c:05003**
Colbourn, Charles J. *see* **de la Torre, Douglas R. et al., 2001m:05007**
Cooper, Colin *see* **Bohman, Tom et al., 2001b:05003**
Degenhardt, Sheldon L. (*with* Milne, Stephen C.) Weighted-inversion statistics and their symmetry groups. (English summary) **2001k:05003**
Del Lungo, Alberto *see* **Barcucci, Elena et al., 2001b:05002** *and* **2001g:05002**
Dohmen, Klaus A new perspective on the union-closed sets conjecture. (English summary) **2001m:05005**
Dress, Andreas W. M. The theorem of the $k-1$ happy divorces. (English summary) **2001b:05004**
Ehrenborg, Richard (*with* Steingrímsson, Einar) The excedance set of a permutation. (English summary) **2001e:05003**
— *see also* **Bóna, Miklós, 2001d:05001**
Engelis, G. Extremum problems for an affine function defined on a set of permutations. (English, Russian and Latvian summaries) (*see* **2001d:00040**)
Faghihi, A. *see* **Iranmanesh, A., 2001c:05004**
Feng, Hong Orbits of upper triangular matrices over $\mathbf{Z}/(p^r)$ modulo p. (Chinese. Chinese summary) **2001g:05003**
Fishburn, Peter C. (*with* Shepp, Lawrence A.) The Ahlswede-Daykin theorem. (English summary) **2001b:05005**
Fon-Der-Flaass, D. *see* **Nyu, V., 2001c:05005**
Foundas, E. Permutations matrix. (English summary) **2001k:05004**
Frieze, Alan M. *see* **Bohman, Tom et al., 2001b:05003**
Ginsburg, John (*with* Sands, Bill) An optimal algorithm for a parallel cutting problem. (English summary) **2001h:05007**
Griggs, J. R. *see* **Chudak, Fabián A., 2001c:05003**
Guibert, Olivier (*with* Linusson, Svante) Doubly alternating Baxter permutations are Catalan. (English and French summaries) **2001i:05009**
Halldórsson, Magnús M. *see* **Morita, Yasufumi et al., (2001f:68014)**
Iranmanesh, A. (*with* Faghihi, A.) Minimal generalized permutations. (English summary) **2001c:05004**
Iwama, Kazuo *see* **Morita, Yasufumi et al., (2001f:68014)**
Kimberling, Clark Card sorting related to Fibonacci numbers. **2001d:05002**
Klazar, Martin The Füredi-Hajnal conjecture implies the Stanley-Wilf conjecture. (English and Russian summaries) **2001k:05005**
— Counting pattern-free set partitions. II. Noncrossing and other hypergraphs. (English summary) **2001i:05010**
Kleitman, Daniel J. *see* **Alon, Noga et al., 2001h:05006**
Kremer, Darla Permutations with forbidden subsequences and a generalized Schröder number. (English summary) **2001a:05005**
Lee, June Bok *see* **Song, Hong-Yeop, 2001d:05004**
Li, Jin Hua A generalization and counting for a certain permutation. (Chinese. English and Chinese summaries)
Ling, Alan C. H. *see* **de la Torre, Douglas R. et al., 2001m:05007**
Linusson, Svante *see* **Guibert, Olivier, 2001i:05009**
Mansour, Toufik Permutations containing and avoiding certain patterns. (English summary) **2001i:05011**
— (*with* Vaĭnshteĭn, A. D.) Restricted permutations, continued fractions, and Chebyshev polynomials. (English summary) **2001a:05006**
— (*with* Vaĭnshteĭn, A. D.) Restricted 132-avoiding permutations. (English summary) **2001m:05006**
McLennan, Andrew *see* **Bóna, Miklós et al., 2001m:05004**
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Miyazaki, Shuichi *see* **Morita, Yasufumi et al., (2001f:68014)**
Morita, Yasufumi (*with* Miyazaki, Shuichi; Iwama, Kazuo; Halldórsson, Magnús M.) On the approximability of the stable marriage problem. (Japanese) (*see* **2001f:68014**)
Muga, Felix P., II On vertex pairs in ternary n-cubes. (English summary) **2001f:05004**
Nyu, V. (*with* Fon-Der-Flaass, D.) Estimates for the length of a universal sequence for permutations. (Russian. Russian summary) **2001c:05005**
Odlyzko, A. M. (*with* Rains, Eric M.) On longest increasing subsequences in random permutations. (English summary) **2001d:05003**
Peart, Paul (*with* Woan, Wen-Jin) Bijective proofs of the Catalan and fine recurrences. (English summary) **2001f:05005**
Pergola, Elisa *see* **Barcucci, Elena et al., 2001b:05002** *and* **2001g:05002**
Petrovskiĭ, A. B. Combinatorics of multisets. (Russian) **2001c:05006**
Pinzani, Renzo *see* **Barcucci, Elena et al., 2001b:05002** *and* **2001g:05002**
Pták, Vlastimil Combinatorial methods in analysis. (English summary) **2001k:05006**
Raĭgorodskiĭ, A. M. Systems of common representatives. (Russian. English and Russian summaries) **2001k:05007**
Rains, Eric M. *see* **Odlyzko, A. M., 2001d:05003**
Raz, Ran VC-dimension of sets of permutations. (English summary) **2001e:05004**
Sands, Bill *see* **Ginsburg, John, 2001h:05007**
Shepp, Lawrence A. *see* **Fishburn, Peter C., 2001b:05005**
Song, Hong-Yeop (*with* Lee, June Bok) On (n,k)-sequences. (English summary) **2001d:05004**
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Alajaji, Fady *see* **Kuai, Hongyan et al., 2001a:60022**
Asano, Tetsuo (*with* Matsui, Tomomi; Tokuyama, Takeshi) On the complexities of the optimal rounding problems of sequences and matrices. (English summary) **2001k:65214**
Ashrafi, Ali Reza *see* **Madanshekaf, Ali, 2001e:20071**
Banderier, Cyril (*with* Dobrow, Robert P.) A generalized cover time for random walks on graphs. (English summary) **2001i:05132**
Beth, Thomas *see* **Egner, Sebastian et al., (2001i:68010)**
Bey, Christian (*with* Engel, Konrad) Old and new results for the weighted t-intersection problem via AK-methods. (English summary) **2001c:05137**
Broder, Andrei Z. (*with* Charikar, Moses; Frieze, Alan M.; Mitzenmacher, Michael) Min-wise independent permutations. (English summary) **2001g:68023**
— (*with* Mitzenmacher, Michael) Completeness and robustness properties of min-wise independent permutations. (English summary) **2001j:68092**
Charikar, Moses *see* **Broder, Andrei Z. et al., 2001g:68023**
Cropper, Matthew M. (*with* Goldwasser, John L.; Hilton, A. J. W.; Hoffman, D. G.; Johnson, Peter D., Jr.) Extending the disjoint-representatives theorems of Hall, Holmes, and Vaughan to list-multicolorings of graphs. (English summary) **2001h:05036**
Daneshgaran, Fred (*with* Mondin, Marina) Permutation fixed points with application to estimation of minimum distance of turbo codes. (English summary)
Deppe, Christian Solution of Ulam's searching game with three lies or an optimal adaptive strategy for binary three-error-correcting codes. (English summary) **2001j:94054**
Dobrow, Robert P. *see* **Banderier, Cyril, 2001i:05132**
Dzierzawa, Michael (*with* Omëro, Marie-José) Statistics of stable marriages. (English summary)
Egner, Sebastian (*with* Püschel, Markus; Beth, Thomas) Decomposing a permutation into a conjugated tensor product. (English summary) (*see* **2001i:68010**)
Engel, Konrad *see* **Bey, Christian, 2001c:05137**
Fleiner, Tamás Uncrossing a family of set-pairs. (English summary) **2001m:05241**
Frieze, Alan M. *see* **Broder, Andrei Z. et al., 2001g:68023**
Goldwasser, John L. *see* **Cropper, Matthew M. et al., 2001h:05036**

Halbeisen, Lorenz (*with* Hungerbühler, Norbert) An application of van der Waerden's theorem in additive number theory. (English summary) **2001h:11022**
Hilton, A. J. W. *see* **Cropper, Matthew M. et al., 2001h:05036**
Hoffman, D. G. *see* **Cropper, Matthew M. et al., 2001h:05036**
Hungerbühler, Norbert *see* **Halbeisen, Lorenz, 2001h:11022**
Itoh, Toshiya (*with* Takei, Yoshinori; Tarui, Jun) On permutations with limited independence. (English summary) **2001b:68097**
Johnson, Peter D., Jr. *see* **Cropper, Matthew M. et al., 2001h:05036**
Konvalina, John A unified interpretation of the binomial coefficients, the Stirling numbers, and the Gaussian coefficients. **2001i:05012**
Kotz, Samuel (*with* Mahmoud, Hosam; Robert, Philippe) On generalized Pólya urn models. (English summary) **2001f:60010**
Kuai, Hongyan (*with* Alajaji, Fady; Takahara, Glen) A lower bound on the probability of a finite union of events. (English summary) **2001a:60022**
Madanshekaf, Ali (*with* Ashrafi, Ali Reza) Generalized action of a hypergroup on a set. (English summary) **2001e:20071**
Mahmoud, Hosam *see* **Kotz, Samuel et al., 2001f:60010**
Matsui, Tomomi *see* **Asano, Tetsuo et al., 2001k:65214**
Merlini, Donatella (*with* Verri, M. Cecilia) Generating trees and proper Riordan arrays. (English summary) **2001f:05009**
Mitzenmacher, Michael *see* **Broder, Andrei Z. et al., 2001g:68023** *and* **2001j:68092**
Miyakawa, Masahiro (*with* Rosenberg, Ivo G.) Rigidity problems of self-dual clones. (Japanese. Japanese summary) (*see* **2001f:68014**)
van Moerbeke, Pierre Random matrices and random permutations. **2001h:82038**
Mondin, Marina *see* **Daneshgaran, Fred**
Nash-Williams, Crispin St. J. A. (*with* White, David John) Rearrangement of vector series. I, II. (English summary) **2001k:40001**
Neuenschwander, Daniel On the representation of permutations as products of transpositions.
Oméro, Marie-José *see* **Dzierzawa, Michael**
Pennell, C. (*with* Rasmussen, Shelley L.; Pennell, S.) Three applications of combinatorics to problems in immunology. **2001i:92002**
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Rasmussen, Shelley L. *see* **Pennell, C. et al., 2001i:92002**
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05A40 Umbral calculus

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05B10 Difference sets (number-theoretic, group-theoretic, etc.) [see also 11B13]

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05B15 Orthogonal arrays, Latin squares, Room squares

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05B35 Matroids, geometric lattices [see also 52B40, 90C27]

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05B40 Packing and covering [see also 11H31, 52C15, 52C17]

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05C12 Distance in graphs

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05C15 Coloring of graphs and hypergraphs

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05C60 Isomorphism problems (reconstruction conjecture, etc.)

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05C62 Graph representations (geometric and intersection representations, etc.)

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05C70 Factorization, matching, covering and packing

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05C78 Graph labelling (graceful graphs, bandwidth, etc.)

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05Dxx Extremal combinatorics

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05D15 Transversal (matching) theory

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05Exx Algebraic combinatorics

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05E30 Association schemes, strongly regular graphs

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05E35 Orthogonal polynomials [see also 33C45, 33C50, 33D45]

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Okada, Soichi *see* **Noumi, Masatoshi et al., 2001m:33015**
Okamoto, Kazuo *see* **Noumi, Masatoshi et al., 2001m:33015**
Ratcliff, Gail *see* **Benson, Chal, 2001a:20071**
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05E99 None of the above, but in this section

Stanley, Richard P. Spanning trees and a conjecture of Kontsevich. (English summary) **2001g:05109**

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Butler, Lynne M. (*with* Hales, A. W.) Generalized flags in p-groups. (English summary) **2001e:20044**
Chapoton, Frédéric Algèbres de Hopf des permutahèdres, associahèdres et hypercubes. (English summary) [Hopf algebras of permutahedra, associahedra and hypercubes] **2001c:16066**
Degenhardt, Sheldon L. (*with* Milne, Stephen C.) Weighted-inversion statistics and their symmetry groups. (English summary) **2001k:05003**
Doran, William F., IV (*with* Wales, David B.) The partition algebra revisited. **2001i:16032**
Hales, A. W. *see* **Butler, Lynne M., 2001e:20044**
Hartley, Michael I. Polytopes of finite type. (English summary) **2001f:52024**
Hong, Jin (*with* Kang, Seok-Jin) Crystal graphs for basic representations of the quantum affine algebra $U_q(C_2^{(1)})$. (English summary) **2001j:17029**
Kang, Seok-Jin *see* **Hong, Jin, 2001j:17029**
Klain, Daniel A. An Euler relation for valuations on polytopes. (English summary) **2001i:52021**
Milne, Stephen C. *see* **Degenhardt, Sheldon L., 2001k:05003**
Novelli, Jean-Christophe (*with* Vasil'eva, E. A.) On the center of the quantum pseudoplactic algebra. (English summary) **2001h:16046**
Novik, Isabella Lower bounds for the cd-index of odd-dimensional simplicial manifolds. (English summary) **2001b:06005**
Smith, Jonathan D. H. Speed's orbit problem: variations on themes of Burnside. (English summary) **2001a:20002**
Vasil'eva, E. A. *see* **Novelli, Jean-Christophe, 2001h:16046**
Wales, David B. *see* **Doran, William F., IV, 2001i:16032**

06–XX Order, lattices, ordered algebraic structures [see also 18B35]

06–01 Instructional exposition (textbooks, tutorial papers, etc.)

Chajda, Ivan (*with* Głazek, Kazimierz) ★ A basic course on general algebra. **2001g:06001**
Głazek, Kazimierz *see* **Chajda, Ivan**, **2001g:06001**

Items with secondary classifications in 06–01

Faure, Claude-Alain (*with* Frölicher, Alfred) ★ Modern projective geometry. (English summary) **2001j:51002**
Frölicher, Alfred *see* **Faure, Claude-Alain**, **2001j:51002**

06–02 Research exposition (monographs, survey articles)

Bezrukov, Sergei L. (*with* Leck, Uwe) Some new results on Macaulay posets. (English summary) (*see* **2001a:00038**)
Călugăreanu, Grigore ★ Lattice concepts of module theory. (English summary) **2001h:06001**
Ehrlich, Philip Hahn's *Über die nichtarchimedischen Grössensysteme* and the development of the modern theory of magnitudes and numbers to measure them. **2001e:06001**
Glass, Andrew M. W. ★ Partially ordered groups. **2001g:06002**
Goldstern, Martin Lattices, interpolation, and set theory. (English summary) **2001e:06002**
(Hahn, Hans) *see* **Ehrlich, Philip**, **2001e:06001**
Leck, Uwe *see* **Bezrukov, Sergei L.**, (**2001a:00038**)
Thakare, N. K. Encounters with problems from algebra, discrete mathematics and soft as well as hard analysis.

Items with secondary classifications in 06–02

Gudder, Stanley Quantum mechanical measurements. **2001j:81030**

06–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 06–03

(Boole, George) *see* **Hailperin, Theodore**
Hailperin, Theodore Boole's algebra isn't Boolean algebra [MR 83e:01038]. A description, using modern algebra, of what Boole really did create.

06–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 06–04

Ngom, Alioune Genetic algorithm for the jump number scheduling problem. (English summary) **2001a:06006**

06–06 Proceedings, conferences, collections, etc.

Items listed otherwise than by author

Conference:
Lattices and Universal Algebra ★ Conference on Lattices and Universal Algebra. **2001i:06001**
Szeged ★ Conference on Lattices and Universal Algebra. **2001i:06001**

Items with secondary classifications in 06–06

(Blok, Willem J.) *see* **Algebra & substructural logics**
(Brickmann, J.) *see* **Partial orderings in chemistry**, **2001g:92001**
(Dorninger, Dietmar) *see* **Contributions to general algebra**, **2001d:00039**
(Eigenthaler, Günther) *see* **Contributions to general algebra**, **2001d:00039**
(Georgescu, George) *see* **Memorial Issue: Moisil, Grigore Constantin**
(Goldstern, Martin) *see* **Contributions to general algebra**, **2001d:00039**
(Gorbunov, Viktor Aleksandrovich) *see* **Memorial Issue: Gorbunov, Viktor Aleksandrovich**
(Ionită, Cătălin) *see* **Memorial Issue: Moisil, Grigore Constantin**
(Iorgulescu, Afrodita) *see* **Memorial Issue: Moisil, Grigore Constantin**
(Kaiser, H. K.) *see* **Contributions to general algebra**, **2001d:00039**
(Klein, D. J.) *see* **Partial orderings in chemistry**, **2001g:92001**
(Moisil, Grigore C.) *see* **Memorial Issue: Moisil, Grigore Constantin**
(More, W.) *see* **Contributions to general algebra**, **2001d:00039**
(Müller, W. B.) *see* **Contributions to general algebra**, **2001d:00039**
(Ono, Hiroakira) *see* **Algebra & substructural logics**
(Rudeanu, Sergiu) *see* **Memorial Issue: Moisil, Grigore Constantin**
(Wroński, Andrzej) *see* **Algebra & substructural logics**

Items listed otherwise than by author

Algebra & substructural logics ★ {Algebra & substructural logics}.
Contributions to general algebra ★ Contributions to general algebra. 12. **2001d:00039**
Memorial Issue:
Gorbunov, Viktor Aleksandrovich ★ {The Viktor Aleksandrovich Gorbunov memorial issue}.
Moisil, Grigore Constantin ★ G. C. Moisil memorial issue.
Partial orderings in chemistry ★ Partial orderings in chemistry. **2001g:92001**
Tatsunokuchi ★ {Algebra & substructural logics}.
Vienna ★ Contributions to general algebra. 12. **2001d:00039**
Workshop:
General Algebra ★ Contributions to general algebra. 12. **2001d:00039**

06Axx Ordered sets

06A05 Total order

Bibiloni, Lluís *see* **Paradís, Jaume et al.**, **2001g:06003**
Droste, Manfred (*with* Truss, John K.) Rigid chains admitting many embeddings. (English summary) **2001j:06001**
Gitik, Moti (*with* Löwe, Benedikt) Cofinalities of linear orders. (English summary) **2001d:06001**
Löwe, Benedikt *see* **Gitik, Moti**, **2001d:06001**
Paradís, Jaume (*with* Viader, Pelegrí; Bibiloni, Lluís) A total order in $(0, 1]$ defined through a 'next' operator. (English summary) **2001g:06003**
Truss, John K. *see* **Droste, Manfred**, **2001j:06001**
Viader, Pelegrí *see* **Paradís, Jaume et al.**, **2001g:06003**

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Bekkali, M. Superatomic treealgebras. (English summary) **2001h:06016**
Bryniarski, Edward (*with* Wybraniec-Skardowska, Urszula) Calculus of contextual rough sets in contextual spaces. (English summary) **2001a:03106**
Cater, Frank S. On order topologies and the real line. (English summary) **2001f:54034**
Esterle, Jean Remarques sur les théorèmes d'immersion de Hahn et Hausdorff et sur les corps de séries formelles. (English summary) [Remarks on the Hahn and Hausdorff embedding theorems and on fields of formal power series] **2001g:03084**
Hanna, A. J. (*with* McMaster, T. Brian M.) Splittability over linear orderings. (English summary) **2001k:54049**
Herden, G. (*with* Pallack, A.) Useful topologies and separable systems. (English summary) **2001k:54050**
Herrero, Carmen (*with* Subiza, Begoña) Set-valued utilities for strict partial orders. (English summary) **2001g:91051**
McMaster, T. Brian M. *see* **Hanna, A. J.**, **2001k:54049**
Pallack, A. *see* **Herden, G.**, **2001k:54050**
Regonati, F. (*with* Sarti, S. D.) Enumeration of chains in semi-primary lattices. (English summary) **2001f:06006**
Sarti, S. D. *see* **Regonati, F.**, **2001f:06006**
Subiza, Begoña *see* **Herrero, Carmen**, **2001g:91051**
Winkler, Reinhard How much must an order theorist forget to become a topologist? (English summary) **2001e:54047**
Wybraniec-Skardowska, Urszula *see* **Bryniarski, Edward**, **2001a:03106**

06A06 Partial order, general

Albu, Toma (*with* Teply, Mark L.) The double infinite chain condition and generalized deviations of posets and modules. (English summary) **2001j:06002**
Arredondo Ruiz, J. H. *see* **Morales, Luis B.**, **2001d:06005**
Benkaraache, Taoufik Les ultramétriques supérieures minimales d'une dissimilarité à valeurs dans un treillis distributif. (English and French summaries) [Minimal superior ultrametrics of a dissimilarity valued in a distributive lattice] **2001m:06001**
Božek, Miloš (*with* Drechsler, Konrad) Singularities on flag spaces. (English summary) **2001b:06001**
Chajda, Ivan (*with* Halaš, Radomír) Characterizing triplets for modular pseudocomplemented ordered sets. (English summary) **2001j:06003**
Chevalier, Georges (*with* Pulmannová, Sylvia) Some ideal lattices in partial abelian monoids and effect algebras. (English summary) **2001g:06004**
Drechsler, Konrad *see* **Božek, Miloš**, **2001b:06001**
El-Zahar, Mohamed H. On jump-critical posets with jump-number equal to width. (English summary) **2001d:06002**
Erné, Marcel (*with* Palko, Vladimír) Uniform ideal completions. (English summary) **2001a:06001**
Felsner, Stefan (*with* Gustedt, Jens; Morvan, Michel) Interval reductions and extensions of orders: bijections to chains in lattices. (English summary) **2001b:06002**
Fishburn, Peter C. (*with* Trotter, William T.) Geometric containment orders: a survey. (English summary) **2001b:06003**
Fishkind, Donniell E. On poset similarity. (English summary) **2001f:06001**
Gruenhage, Gary (*with* Mashburn, Joe) On the decomposition of order-separable posets of countable width into chains. (English summary) **2001a:06002**
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Halaš, Radomír Congruences on posets. (English summary) **2001d:06003**
— *see also* **Chajda, Ivan**, **2001j:06003**
Haviar, Alfonz (*with* Hrnčiar, Pavel) The dimension of orthomodular posets constructed by pasting Boolean algebras. II. (English summary) **2001d:06004**
Hrnčiar, Pavel *see* **Haviar, Alfonz**, **2001d:06004**
Kohayakawa, Yoshiharu (*with* Kreuter, B.; Osthus, Deryk) The length of random subsets of Boolean lattices. (English summary) **2001c:06001**
Kreuter, B. *see* **Kohayakawa, Yoshiharu et al.**, **2001c:06001**
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Lihová, Judita Characterization of posets of intervals. (English summary) **2001e:06003**
Lyapin, E. S. A transformational anti-atomic characterisation of ordered sets. (Russian. Russian summary) **2001f:06002**
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Morales, Luis B. (*with* Arredondo Ruiz, J. H.) A family of asymptotically $e(n-1)!$ polynomial orders of N^n. (English summary) **2001d:06005**
Morvan, Michel *see* **Felsner, Stefan et al.**, **2001b:06002**
Osthus, Deryk Maximum antichains in random subsets of a finite set. (English summary) **2001c:06002**
— *see also* **Kohayakawa, Yoshiharu et al.**, **2001c:06001**
Ovchinnikov, Sergei V. Lattical token systems. (English summary)
Palko, Vladimír *see* **Erné, Marcel**, **2001a:06001**
Parameshwara Bhatta, S. (*with* Shashirekha, H.) A characterization of completeness for trellises. (English summary) **2001k:06001**

Pikhurko, Oleg On edge decompositions of posets. (English summary) **2001d:06006**
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Schröder, Bernd S. W. Uniqueness of the core for chain-complete ordered sets. (English summary) **2001k:06002**
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Trotter, William T. *see* **Fishburn, Peter C.**, **2001b:06003**
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Baldy, P. (*with* Morvan, Michel; Thierry, Eric) Extending a partially ordered set: links with its lattice of ideals. (English summary) **2001f:06003**
Basak, S. C. *see* **Randić, Milan et al.**, **2001m:92035**
Bonchev, Danail (*with* Gordeeva, Ekaterina) Hierarchical partially ordered sets based on topological complexity. (English summary) **2001k:92073**
Bondarenko, V. M. Linear operators in finite-dimensional S-spaces. (Russian) **2001e:15001**
— The categories $A_{S,k,f}$ of finite type. (Russian) **2001a:18004**
— Classification of objects of the categories $A_{S,k,f}$ of finite type. (Russian) **2001b:18009**
Bosi, Gianni (*with* Candeal-Haro, Juan Carlos; Induráin Eraso, Esteban) Continuous representability of homothetic preferences by means of homogeneous utility functions. (English summary) **2001e:91069**
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Cherciu, Mihail Well founded ordered sets and a fixpoint theorem. (English summary) **2001g:03116**
Doignon, Jean-Paul (*with* Mitas, Jutta) Dimension of valued relations. (English summary) **2001g:91042**
Droste, Manfred (*with* Truss, John K.; Warren, Richard) Simple automorphism groups of cycle-free partial orders. (English summary) **2001d:20004**
Erné, Marcel (*with* Zhao, Dong-sheng) $\mathcal{Z}$-join spectra of $\mathcal{Z}$-supercompactly generated lattices. (English summary) **2001k:06012**
Farley, Jonathan David Quasi-differential posets and cover functions of distributive lattices. I. A conjecture of Stanley. (English summary) **2001f:06021**
Gordeeva, Ekaterina *see* **Bonchev, Danail**, **2001k:92073**
Harper, L. H. Morphisms for the maximum weight ideal problem. (English summary) **2001h:05055**
Henriksen, Melvin (*with* Smith, F. A.) The Bordalo order on a commutative ring. (English summary) **2001b:06032**
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Kim, Hee Sik *see* **Lee, Young Chan**, **2001j:06026** *and* **Neggers, J.**, **2001j:06027**
Klein, D. J. Prolegomenon on partial orderings in chemistry. **2001m:92036**
Komuro, Naoto (*with* Yoshimura, Hiroko) Generalized supremum in partially ordered linear space and the monotone order completeness. (English summary) **2001e:46005**
Lee, Young Chan (*with* Kim, Hee Sik) On d^*-subalgebras of d-transitive d^*-algebras. (English summary) **2001j:06026**
Lehman, Eric (*with* Ron, Dana) On disjoint chains of subsets. (English summary)
Li, Ji Cheng (*with* Zhang, Wen Xiu) On convergence of the min-max compositions of fuzzy matrices. (English summary) **2001m:15047**
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Lihová, Judita Characterization of lattices of convex subsets of posets. **2001a:06008**
McCluskey, A. E. (*with* McMaster, T. Brian M.) Realizing quasiordered sets by subspaces of "continuum-like" spaces. (English summary) **2001i:54042**
McKenzie, Ralph Arithmetic of finite ordered sets: cancellation of exponents. I. (English summary) **2001f:06005**
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Reiner, Victor (*with* Welker, Volkmar) A homological lower bound for order dimension of lattices. (English summary) **2001a:06007**
Remmel, Jeffrey B. (*with* Williamson, S. Gill) Large-scale regularities of lattice embeddings of posets. (English summary) **2001f:05155**
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06A07 Combinatorics of partially ordered sets

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Bezrukov, Sergei L. (*with* Elsässer, Robert) The spider poset is Macaulay. (English summary) **2001i:06003**
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Brualdi, Richard A. From the Editor-in-Chief. Comment on: "Maximum and minimum jump number of posets from matrices" [Linear Algebra Appl. **172** (1992), 261–282; MR 93c:06004] by Brualdi and H. C. Jung.
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Canfield, E. Rodney (*with* Engel, Konrad) An upper bound for the size of the largest antichain in the poset of partitions of an integer. (English summary) **2001b:06004**
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Cho, Soojin On the support size of null designs of finite ranked posets. (English summary) **2001d:06009**
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Pouzet, Maurice A projection property and Arrow's impossibility theorem. (English summary) **2001j:06005**
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Ryan, Stephen P. Trapezoid order classification. (English summary) **2001h:06003**
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Srinivasan, Murali K. *see* **Deodhar, Rajendra S.**, **2001e:06004**
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Padmanabhan, R. (*with* Penner, P.) Structures of free n-quasilattices. (English summary) **2001k:06004**
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Shum, Kar Ping On semi-ideals in semilattices. (English summary) **2001m:06008**
Silva, Pedro V. On unique factorization semilattices. (English summary) **2001i:06006**
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Das, Pratyayananda *see* **Adhikari, M. R., 2001a:57003**
Erné, Marcel (*with* Palko, Vladimír) Uniform ideal completions. (English summary) **2001a:06001**
Grätzer, George (*with* Wehrung, Friedrich) Tensor products of semilattices with zero, revisited. (English summary) **2001b:06008**
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Qian, Jin (*with* Ray-Chaudhuri, Dijen K.) Combinatorial inequalities for quasi polynomial semi-lattices. (English summary) **2001m:05025**
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Babaev, Ali Avaz (*with* Baĭramov, R. A.) On strong independence in general and special closure spaces. (Russian. English and Azerbaijani summaries)
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06A99 None of the above, but in this section

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06Bxx Lattices [see also 03G10]

06B05 Structure theory

Becker, Thomas General algebraic geometry and formal concept analysis. **2001c:06005**
Bulatov, Andrei A. Sublattices of a lattice of clones of functions on a three-element set. I. (Russian. Russian summary) **2001e:06009**
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— (*with* Slezák, Vladimír) Disjoint unions of incidence structures and complete lattices. (English summary) **2001f:06012**
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Pinus, A. G. On the definability of lattices by the lattice of their sublattices. (Russian. English summary) **2001e:06011**
Semenova, M. V. Lattices with unique irreducible decompositions. (Russian. Russian summary) **2001h:06008**
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Bosbach, Bruno Classical ideal semigroups. (English summary) **2001c:06015**
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Gill, Robert On posets from conjugacy classes of Coxeter groups. (English summary) **2001g:20049**
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06B10 Ideals, congruence relations

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Chevalier, Georges (*with* Pulmannová, Sylvia) Semiprime ideals in orthomodular posets. (English summary) **2001d:06012**
Dau, Frithjof Implications of properties concerning complementation in finite lattices. (English summary) (*see* **2001d:00039**)
Farley, Jonathan David Functions on distributive lattices with the congruence substitution property: some problems of Grätzer from 1964. (English summary) **2001f:06014**
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— (*with* Lakser, Harry; Schmidt, E. T.) Congruence representations of join-homomorphisms of finite distributive lattices: size and breadth. (English summary) **2001k:06006**
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Latif, M. A. *see* **Noor, A. S. A., 2001m:06011**
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— (*with* Halaš, Radomir) Characterizing triplets for modular pseudocomplemented ordered sets. (English summary) **2001j:06003**
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— (*with* Wehrung, Friedrich) A survey of tensor products and related constructions in two lectures. (English summary) **2001m:06010**
Halaš, Radomir Congruences on posets. (English summary) **2001d:06003**
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— (*with* Kim, Kyung Ho) Conditions for a BCK-algebra to be n-fold positive implicative. (English summary)
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Kehayopulu, Niovi (*with* Tsingelis, Michael) A remark on congruences in ordered semigroups. (Russian)
Kim, Kyung Ho *see* **Jun, Young Bae**
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06Cxx Modular lattices, complemented lattices

06C05 Modular lattices, Desarguesian lattices

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06C10 Semimodular lattices, geometric lattices

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Chajda, Ivan (*with* Eigenthaler, Günther) A note on orthopseudorings and Boolean quasirings. (English summary) **2001h:06012**
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06C20 Complemented modular lattices, continuous geometries

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06Dxx Distributive lattices

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06D25 Post algebras [see also 03G20]

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06D50 Lattices and duality

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06D72 Fuzzy lattices (soft algebras) and related topics

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Kim, Hee Sik *see* **Neggers, J., 2001k:06021**
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Roh, Eun Hwan On fuzzy topological subalgebras of BCH-algebras. (English summary) **2001j:03118**
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06F99 None of the above, but in this section

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Rachůnek, Jiří Polars and annihilators in representable DRI-monoids and MV-algebras. (English summary) **2001m:06023**

08–XX General algebraic systems

08–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Plotkin, B. I. Algebra, categories and databases. **2001e:08001**

08–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 08–01

Chajda, Ivan (*with* Głazek, Kazimierz) ★ A basic course on general algebra. **2001g:06001**
Głazek, Kazimierz *see* **Chajda, Ivan, 2001g:06001**
Pratt, Vaughan Chu spaces. **2001j:03110**

08–02 Research exposition (monographs, survey articles)

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Cignoli, Roberto L. O. (*with* D'Ottaviano, Itala Maria Loffredo; Mundici, Daniele) ★ Algebraic foundations of many-valued reasoning. (English summary) **2001j:03114**
D'Ottaviano, Itala Maria Loffredo *see* **Cignoli, Roberto L. O. et al., 2001j:03114**
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08–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 08–03

Biryukov, B. V. *see* **Biryukova, L. G., 2001b:01012**
Biryukova, L. G. (*with* Biryukov, B. V.) On the axiomatic sources of fundamental algebraic structures: the achievements of Hermann Grassmann and Robert Grassmann. (Russian. English summary) **2001b:01012**
(Grassmann, Hermann Günther) *see* **Biryukova, L. G., 2001b:01012**
(Grassmann, Robert) *see* **Biryukova, L. G., 2001b:01012**

08–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 08–06

(Blok, Willem J.) *see* **Algebra & substructural logics**
(Dorninger, Dietmar) *see* **Contributions to general algebra, 2001d:00039**
(Eigenthaler, Günther) *see* **Contributions to general algebra, 2001d:00039**
(Goldstern, Martin) *see* **Contributions to general algebra, 2001d:00039**
(Gorbunov, Viktor Aleksandrovich) *see* **Memorial Issue: Gorbunov, Viktor Aleksandrovich**
(Kaiser, H. K.) *see* **Contributions to general algebra, 2001d:00039**
(More, W.) *see* **Contributions to general algebra, 2001d:00039**
(Müller, W. B.) *see* **Contributions to general algebra, 2001d:00039**
(Ono, Hiroakira) *see* **Algebra & substructural logics**
(Wroński, Andrzej) *see* **Algebra & substructural logics**

Items listed otherwise than by author

Algebra & substructural logics ★ {Algebra & substructural logics}.
Conference:
Lattices and Universal Algebra ★ Conference on Lattices and Universal Algebra. **2001i:06001**
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Gorbunov, Viktor Aleksandrovich ★ {The Viktor Aleksandrovich Gorbunov memorial issue}.
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08Axx Algebraic structures [see also 03C05]

08A02 Relational systems, laws of composition

Antohe, Stefan Groups and related-systems.
Koppitz, J. *see* **Thron, R., 2001m:08002**
Mala, József On proximal properties of proper symmetrizations of relators. (English summary) **2001m:08001**
Ricci, Gabriele Boolean matrices ... neither Boolean nor matrices. (English summary) **2001d:08001**
Thron, R. (*with* Koppitz, J.) Finite relational disjunctions. (English summary) **2001m:08002**
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Yu, Bing Jun *see* **Zhu, Jin Hua**
Zhu, Jin Hua (*with* Yu, Bing Jun) A generalization of linear dependence in vector spaces. (Chinese. English and Chinese summaries)

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Bokut', L. A. (*with* Fong, Yuen; Ke, Wen Fong) Gröbner-Shirshov bases and composition lemma for associative conformal algebras: an example. **2001i:16057**
Burusco Juandeaburre, A. (*with* Fuentes González, Ramón) Contexts with multiple weighted values. (English summary)
Düntsch, Ivo (*with* Wang, Hui[6]; McCloskey, Stephen) Relations algebras in qualitative spatial reasoning. (English summary) **2001c:03103**
Fong, Yuen *see* **Bokut', L. A. et al., 2001i:16057**
Fuentes González, Ramón *see* **Burusco Juandeaburre, A.**
Givant, Steven Universal classes of simple relation algebras. **2001f:03125**
Ke, Wen Fong *see* **Bokut', L. A. et al., 2001i:16057**
McCloskey, Stephen *see* **Düntsch, Ivo et al., 2001c:03103**
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Pavlovskiĭ, Yu. N. Invariant properties of axioms of species of structures. (Russian. Russian summary) **2001g:93026**
Rosenberg, Ivo G. Locally maximal clones. II. (English summary) **2001m:08006**
Rößiger, Martin A unified general Galois theory. (English summary) **2001d:08007**
Stebletsova, Vera Weakly associative relation algebras with polyadic composition operations. (English summary) **2001m:03135**
Tardif, Claude *see* **Nešetřil, Jaroslav, 2001g:05087**
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Yuan, Xue Hai *see* **Zhao, Yan Ying**
Zhao, Yan Ying (*with* Yuan, Xue Hai) *G*-intuitionistic fuzzy equivalence relations. (Chinese. English and Chinese summaries)

08A05 Structure theory

Berman, Joel (*with* Idziak, Paweł M.) Counting finite algebras in the Post varieties. (English summary) **2001b:08001**
Chajda, Ivan (*with* Graczyńska, Ewa) Algebras presented by normal identities. (English summary) **2001b:08002**
— (*with* Halaš, Radomír; Rosenberg, Ivo G.) Ideals and the binary discriminator in universal algebra. (English summary) **2001c:08001**
Cignoli, Roberto L. O. (*with* Torrens Torrell, Antoni) Free Stone algebras. (English summary) **2001b:08003**
Davey, Brian A. (*with* Idziak, Paweł M.; Lampe, William A.; McNulty, George F.) Dualizability and graph algebras. (English summary) **2001a:08001**
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Klouda, J. (*with* Vanžurová, A.) On a general construction of diagonal algebras. (English summary) **2001f:08001**
Knoebel, Arthur The shells of Vaggione: some comments and questions. (English summary) **2001i:08003**
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Pilitowska, A. (*with* Romanowska, Anna) Reductive modes. (English summary) **2001b:08004**
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— *see also* **Pilitowska, A., 2001b:08004**
Rosenberg, Ivo G. *see* **Chajda, Ivan et al., 2001c:08001**
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Sheremet, M. S. Retractive decompositions of compact systems. (Russian. English summary) (*see* **2001d:00025**)
Słomczyńska, Katarzyna *see* **Idziak, Paweł M., 2001m:08003**
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Chajda, Ivan Characterizing binary discriminator algebras. (English summary)
Hodkinson, Ian (*with* Mikulás, Szabolcs) Axiomatizability of reducts of algebras of relations. (English summary) **2001d:03155**
Jakubíková-Studenovská, Danica DR-irreducibility of connected monounary algebras with a cycle. **2001j:08004**
— DR-irreducibility of connected monounary algebras. **2001j:08005**
Kearnes, Keith A. Congruence modular varieties with small free spectra. (English summary) **2001h:08004**
— (*with* Szendrei, Ágnes) The residual character of varieties generated by strictly simple term minimal algebras. (English summary) **2001c:08012**
Kelarev, A. V. (*with* Sokratova, O. V.) Syntactic semigroups and graph algebras. (English summary) **2001i:68119**
Mikulás, Szabolcs *see* **Hodkinson, Ian, 2001d:03155**
Pióro, Konrad On some non-obvious connections between graphs and unary partial algebras. (English summary) **2001f:05146**
Šešelja, Branimir (*with* Tepavčević, Andreja) A note on Boolean lattices of finite posets. (English summary) **2001e:08004**
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08A30 Subalgebras, congruence relations

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— (*with* Chajda, Ivan) Relative deductive systems and congruence classes. (English summary)
Bosbach, Bruno Algebraic multiplication m-lattices. **2001k:08001**
Bošnjak, Ivica (*with* Madarász, Rozália Sz.) Good quotient relations and power algebras. (English summary) **2001m:08004**
Chajda, Ivan (*with* Zedník, Josef) Determined congruence classes in Brouwerian semilattices. (English summary) **2001b:08006**
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— *see also* **Bělohlávek, Radim**
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Erné, Marcel Prime ideal theory for general algebras. (English summary) **2001i:08004**
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Šešelja, Branimir (*with* Tepavčević, Andreja) A note on Boolean lattices of finite posets. (English summary) **2001e:08004**
— (*with* Tepavčević, Andreja) Relative complements in the weak congruence lattice. (English summary) **2001a:08002**
— (*with* Tepavčević, Andreja) A note on CIP varieties. (English summary) (*see* **2001i:06001**)
Shaposhnikov, I. G. Congruences of finite multibase universal algebras. (Russian. Russian summary) **2001d:08004**
Tepavčević, Andreja *see* **Šešelja, Branimir, 2001a:08002; 2001e:08004** *and* **(2001i:06001)**
Ursini, Aldo On subtractive varieties. V. Congruence modularity and the commutators. (English summary) **2001h:08001**
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Ashrafi, Ali Reza The problem of intervals. (English summary) **2001k:20044**
Burmeister, Peter (*with* Holzer, Richard; Mączyński, Maciej) Quasi-rings and congruences in the theory of orthomodular algebras. (English summary) **2001k:08004**
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— (*with* Eigenthaler, Günther) Dually regular varieties. (English summary) **2001d:08010**
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Dudek, Wiesław A. A new characterization of ideals in BCC-algebras. (English summary) **2001k:06024**
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Knoebel, Arthur The shells of Vaggione: some comments and questions. (English summary) **2001i:08003**
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— On functions that commute with semigroups of transformations of algebras. (Russian. Russian summary) **2001j:08007**
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— A constructive approach to the finite congruence lattice representation problem. (English summary) **2001f:06015**
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Vaggione, Diego Central elements in varieties with the Fraser-Horn property. **2001b:08005**
Zhang, Gui Sheng The dual-set algebra and the dual-set representation of soft algebra. (Chinese. English and Chinese summaries)

08A35 Automorphisms, endomorphisms

Chajda, Ivan (*with* Länger, Helmut) Homomorphism and isomorphism theorems for choice algebras. (English summary) (*see* **2001d:00039**)
Gierz, Gerhard (*with* Stralka, Albert R.) Quotients of full sublattices of Euclidean space. (English summary) **2001m:08005**
Haviar, M. (*with* Priestley, H. A.) Endodualisable and endoprimal finite double Stone algebras. (English summary) **2001c:08002b**
— (*with* Priestley, H. A.) A criterion for a finite endoprimal algebra to be endodualisable. (English summary) **2001c:08002a**
Länger, Helmut *see* **Chajda, Ivan, (2001d:00039)**
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Pionka, Ernest Some remarks on endomorphisms of universal n-algebras. **2001c:08003**
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Kamara, M. *see* **Hartung, Gerd et al., 2001c:06004**
Koubek, Václav (*with* Sichler, J.) Strongly alg-universal semigroup varieties. (English summary) **2001a:20103**
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— (*with* Slezák, Vladimír) Disjoint unions of incidence structures and complete lattices. (English summary) **2001f:06012**
Madarász, Rozália Sz. (*with* Mašulović, Dragan; Tasić, Boža) Strong retracts of unary algebras. (English summary) **2001k:08006**
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Pitkethly, J. G. *see* **Davey, Brian A., 2001m:06006**
Ricci, Gabriele Boolean matrices ... neither Boolean nor matrices. (English summary) **2001d:08001**
Săcărea, C. *see* **Hartung, Gerd et al., 2001c:06004**
Sichler, J. *see* **Koubek, Václav, 2001a:20103**
Slezák, Vladimír *see* **Machala, František, 2001f:06012**
Tasić, Boža *see* **Madarász, Rozália Sz. et al., 2001k:08006**

08A40 Operations, polynomials, primal algebras

Aichinger, Erhard On Hagemann's and Herrmann's characterization of strictly affine complete algebras. (English summary) **2001j:08001**
Babaev, Ali Avaz (*with* Bairamov, R. A.; Sharifov, T. K.) On stabilizer representations and special bases of clones of finitary functions and relations. (Russian. English and Azerbaijani summaries)
— (*with* Bairamov, R. A.) On strong independence in general and special closure spaces. (Russian. English and Azerbaijani summaries)
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Chajda, Ivan Characterizing binary discriminator algebras. (English summary)
Cho, Jung R. (*with* Dudek, Józef) Medial idempotent groupoids. III. (English summary) **2001e:08004**
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Denecke, Klaus (*with* Hyndman, Jennifer; Wismath, Shelly L.) The Galois correspondence between subvariety lattices and monoids of hypersubstitutions. (English summary) **2001j:08002**
Doroslovački, Rade (*with* Pantović, Jovanka; Vojvodić, Gradimir) Note on intersections of maximal clones. (English summary) **2001k:08003**
— (*with* Pantović, Jovanka; Tošić, Ratko; Vojvodić, Gradimir) On completeness criterion for partial hyperoperations. (English summary)
Dudek, Józef *see* **Cho, Jung R., 2001c:08004**
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Haddad, Lucien (*with* Lau, Dietlinde) Families of finitely generated maximal partial clones. (English summary) **2001d:08005**
Halaš, Radomír *see* **Czédli, Gábor et al., 2001k:08002**
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— (*with* Pöschel, Reinhard) Rosenberg co-relations. (English summary) **2001e:08005**
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— (*with* Vojvodić, Dušan) The cardinality of the set of clones containing unary minimal clones on the three element set. (English summary) **2001j:08003**
— (*with* Tošić, Ratko; Vojvodić, Gradimir) Relative completeness with respect to transpositions. (English summary)
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Pinus, A. G. The positive and generalized discriminators don't exist. (English summary) **2001e:08006**
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Vármonostory, Endre *see* **Szabó, László[1], 2001m:08007**
Vojvodić, Dušan *see* **Pantović, Jovanka, 2001d:08006** *and* **2001j:08003**
Vojvodić, Gradimir *see* **Doroslovački, Rade et al., 2001k:08003** *and* **Pantović, Jovanka et al.**
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— (*with* Chajda, Ivan) Relative deductive systems and congruence classes. (English summary)
Bergman, Clifford (*with* Slutzki, Giora) Complexity of some problems concerning varieties and quasi-varieties of algebras. (English summary) **2001g:68038**
Berzins, A. (*with* Plotkin, B. I.; Plotkin, E. B.) Algebraic geometry in varieties of algebras with the given algebra of constants. **2001h:14001**
Bulatov, Andrei A. Sublattices of a lattice of clones of functions on a three-element set. I. (Russian. Russian summary) **2001e:06009**
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— (*with* Krokhin, Andrei A.; Jeavons, Peter) Constraint satisfaction problems and finite algebras. (English summary) **2001h:68137**
Chajda, Ivan *see* **Bělohlávek, Radim**
Crvenković, Siniša (*with* Dolinka, Igor; Ruškuc, Nikola) Notes on the number of operations of finite semigroups. (English summary) **2001e:20066**
— (*with* Dolinka, Igor; Ruškuc, Nikola) Finite semigroups with few term operations. (English summary) **2001m:20109**
Davey, Brian A. (*with* Pitkethly, J. G.) Dualisability of p-semilattices. (English summary) **2001m:06006**
Denecke, Klaus (*with* Mruczek, K.) Proper P-compatible hypersubstitutions. (English summary) **2001i:08009**
Dolinka, Igor *see* **Crvenković, Siniša et al., 2001e:20066** *and* **2001m:20109**
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— (*with* Priestley, H. A.) A criterion for a finite endoprimal algebra to be endodualisable. (English summary) **2001c:08002a**
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Mamedov, O. M. On situation above prime-chain-primal varieties in the interpretability lattice. (Russian and Azerbaijani summaries) **2001i:08008**
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Pitkethly, J. G. *see* **Davey, Brian A., 2001m:06006**
Płonka, J. Lattices of subvarieties of the clone extensions of some varieties. (English summary) **2001c:08010**
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Priestley, H. A. *see* **Haviar, M., 2001c:08002a** *and* **2001c:08002b**
Rößiger, Martin A unified characterization of clones. (English summary) **2001g:08002**
Ruškuc, Nikola *see* **Crvenković, Siniša et al., 2001e:20066** *and* **2001m:20109**
Słomczyńska, Katarzyna *see* **Idziak, Paweł M., 2001m:08003**
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Trnková, Věra *see* **Tozzi, A., 2001e:54019**
Waldhauser, Tamás Minimal clones generated by majority operations. (English summary) **2001i:08001**

08A50 Word problems [see also 03D40, 06B25, 20F10, 68R15]

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Dolinka, Igor *see* **Crvenković, Siniša, 2001i:08006**

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Delić, Dejan A finitely axiomatizable undecidable equational theory with recursively solvable word problems. (English summary) **2001a:03021**
Markovski, Smile (*with* Sokolova, Ana) Term rewriting system for solving the word problem for Steiner loops. (English and Macedonian summaries) **2001k:68061**
Sokolova, Ana *see* **Markovski, Smile, 2001k:68061**

08A55 Partial algebras

Burmeister, Peter (*with* Holzer, Richard; Mączyński, Maciej) Quasi-rings and congruences in the theory of orthomodular algebras. (English summary) **2001k:08004**
Haddad, Lucien (*with* Lau, Dietlinde) Pairwise intersections of Słupecki type maximal partial clones. (English summary) **2001m:08008**
Holzer, Richard *see* **Burmeister, Peter et al., 2001k:08004**
Lau, Dietlinde *see* **Haddad, Lucien, 2001m:08008**
Mączyński, Maciej *see* **Burmeister, Peter et al., 2001k:08004**
Moyà, Manuel (*with* Rosselló-Llompart, Francesc; Sastre, Llorenç) A category of partial homomorphisms of partial algebras that is always cocomplete. **2001b:08008**
Pióro, Konrad The weak subalgebra lattice of a unary partial algebra of a given finite unary type. (English summary) **2001c:08005**
Riečanová, Zdenka Compatibility and central elements in effect algebras. (English summary) **2001b:08009**
Rosselló-Llompart, Francesc *see* **Moyà, Manuel et al., 2001b:08008**
Sastre, Llorenç *see* **Moyà, Manuel et al., 2001b:08008**
Šlapal, Josef Another Cartesian closed category of partial algebras. **2001k:08005**
Vogel, Hans-Jürgen Identities and hyperidentities for classes of partial algebras. (English summary) **2001c:08006**

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Jenča, Gejza Notes on $R1$-ideals in partial abelian monoids. (English summary) [Notes on R_1-ideals in partial abelian monoids] **2001f:06027**
Pióro, Konrad On connections between hypergraphs and algebras. (English summary) **2001b:05161**
— On some non-obvious connections between graphs and unary partial algebras. (English summary) **2001f:05146**
— A few notes on subalgebra lattices. I. (English summary) **2001k:08007**
Riečanová, Zdenka Archimedean and block-finite lattice effect algebras. (English summary) **2001j:06011**

08A60 Unary algebras

Halušková, Emília Algebras with one and two direct limits. (English summary) **2001d:08008**
— Monounary algebras with two direct limits. (English summary) **2001i:08007**
Jakubíková-Studenovská, Danica On homogeneous and 1-homogeneous monounary algebras. (English summary) (*see* **2001d:00039**)
— DR-irreducibility of connected monounary algebras with a cycle. **2001j:08004**
— DR-irreducibility of connected monounary algebras. **2001j:08005**
— Unoriented graphs of monounary algebras. (English summary) **2001f:08003**
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Mašulović, Dragan *see* **Madarász, Rozália Sz. et al., 2001k:08006**
Pióro, Konrad A few notes on subalgebra lattices. I. (English summary) **2001k:08007**
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Weaver, George Homogeneous and universal Dedekind algebras. (English summary) **2001b:08010**

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Kartashova, A. V. Topology lattices of unary algebras. (Russian)
Mašulović, Dragan (*with* Pöschel, Reinhard) Lifted transformation monoids and their characterization by relations and co-relations. (English summary) **2001h:08002**
Pióro, Konrad The weak subalgebra lattice of a unary partial algebra of a given finite unary type. (English summary) **2001c:08005**
— On some non-obvious connections between graphs and unary partial algebras. (English summary) **2001f:05146**
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08A62 Finitary algebras

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Karpunin, G. A. (*with* Shaposhnikov, I. G.) Crossed homomorphisms of finite multibase universal algebras with binary operations. (Russian. Russian summary) **2001i:08002**
Klouda, J. (*with* Vanžurová, A.) On a general construction of diagonal algebras. (English summary) **2001f:08001**
Koppitz, J. *see* **Thron, R., 2001m:08002**
Mašulović, Dragan Primitive-positive maximal clones. (English summary) **2001f:08002**
Shaposhnikov, I. G. *see* **Karpunin, G. A., 2001i:08002**
Thron, R. (*with* Koppitz, J.) Finite relational disjunctions. (English summary) **2001m:08002**
Vanžurová, A. *see* **Klouda, J., 2001f:08001**
Waldhauser, Tamás Minimal clones generated by majority operations. (English summary) **2001i:08001**

08A70 Applications of universal algebra in computer science

Ganter, Bernhard (*with* Pöschel, Reinhard; Rößiger, Martin) Homomorphisms of algebras, coalgebras, and relational systems as formal concepts. (English summary) **2001e:08007**
Krivoi, S. L. On the intersection of term equality sets in finitely defined algebras. (Russian. English and Ukrainian summaries) **2001d:08009**
Pöschel, Reinhard *see* **Ganter, Bernhard et al., 2001e:08007**
Rößiger, Martin *see* **Ganter, Bernhard et al., 2001e:08007**

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Angelsmark, Ola Constraints, adjunctions and (co)algebras. (English summary) (*see* **2001e:68006**)
Crvenković, Siniša (*with* Dolinka, Igor) Separability and decidability results for varieties of Jónsson dynamic algebras. (English summary) **2001f:03128**
— (*with* Dolinka, Igor; Ésik, Zoltán) On equations for union-free regular languages. (English summary) **2001k:03147**
Dolinka, Igor *see* **Crvenković, Siniša et al., 2001f:03128** *and* **2001k:03147**
Ésik, Zoltán *see* **Crvenković, Siniša et al., 2001k:03147**
Kelarev, A. V. (*with* Sokratova, O. V.) A class of semisimple automata. (English summary) **2001m:68128**
Mobasher, B. (*with* Pigozzi, Don L.; Slutzki, Giora; Voutsadakis, G.) A duality theory for bilattices. (English summary) **2001k:06007**
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Popovici, A. (*with* Popovici, D.) Infix and postfix notations. (English summary) **2001e:68106**
Popovici, D. *see* **Popovici, A., 2001e:68106**
Pöschel, Reinhard (*with* Rößiger, Martin) A general Galois theory for cofunctions and correlations. (English summary) **2001i:06007**
Rößiger, Martin *see* **Pöschel, Reinhard, 2001i:06007**

Slutzki, Giora *see* **Mobasher, B. et al., 2001k:06007**
Sokratova, O. V. *see* **Kelarev, A. V., 2001m:68128**
Voutsadakis, G. *see* **Mobasher, B. et al., 2001k:06007**

08A72 Fuzzy algebraic structures

Xiao, Guang Can Semilattices of fuzzy semigroups. (Chinese. English and Chinese summaries)
Yang, Yun Fuzzy middle ideals of a soft algebra. (Chinese. English and Chinese summaries)

Items with secondary classifications in 08A72

Al-Khamees, Yousif (*with* Mordeson, John N.) Reduced fields, primitive and fuzzy Galois theory. (English summary) **2001d:12005**
Kim, Hee Sik *see* **Neggers, J., 2001k:06021**
Lele, Celestin (*with* Wu, Cong Xin) Some properties of fuzzy ideal in BCK-algebras. (English and Chinese summaries)
Mordeson, John N. *see* **Al-Khamees, Yousif, 2001d:12005**
Neggers, J. (*with* Kim, Hee Sik) Fuzzy posets on sets. (English summary) **2001k:06021**
Shen, Ji Zhong[1] *L*-congruence relations over semigroups. (English summary) **2001m:20111**
Sidky, F. I. Fuzzy localization of modules. (English summary) **2001h:13017**
Wu, Cong Xin *see* **Lele, Celestin**
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08A99 None of the above, but in this section

Ensor, Andrew Formations, bihomomorphisms and natural transformations. (English summary) **2001g:08001**
Isbell, John Relatively parametrizable subalgebras. (English summary) (*see* **2001d:00062**)
Jun, Young Bae (*with* Kim, Hee Sik) Intuitionistic fuzzy ideals of inclines. (English summary) (*see* **2001i:03008**)
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Rößiger, Martin A unified characterization of clones. (English summary) **2001g:08002**
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Ganter, Bernhard (*with* Pöschel, Reinhard; Rößiger, Martin) Homomorphisms of algebras, coalgebras, and relational systems as formal concepts. (English summary) **2001e:08007**
Hilton, A. J. W. *see* **Dugdale, J. K. et al., 2001k:05043**
Kozhukhov, I. B. Semigroups over which all polygons are residually finite. (Russian. English and Russian summaries)
Loginov, Evgeniĭ K. On the embedding of Moufang loops into alternative algebras. (Russian)
Markov, Svetoslav M. On the algebraic properties of convex bodies and some applications. (English summary) **2001f:52002**
Mikhalëv, A. V. *see* **Zakharov, Valeriĭ Konstantinovich, 2001m:03026**
Pöschel, Reinhard (*with* Rößiger, Martin) A general Galois theory for cofunctions and correlations. (English summary) **2001i:06007**
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Sokratova, O. V. ★ Ω-rings, their flat and projective acts with some applications. (Estonian summary) **2001m:16085**
Wojciechowski, Jerzy *see* **Dugdale, J. K. et al., 2001k:05043**
Zakharov, Valeriĭ Konstantinovich (*with* Mikhalëv, A. V.) Big mathematical systems. (English summary) **2001m:03026**

08Bxx Varieties [see also 03C05]

08B05 Equational logic, Mal'cev (Mal'tsev) conditions

Agliano, Paolo (*with* Baker, Kirby A.) Congruence properties of two-generated varieties. (English summary) **2001f:08004**
Arworn, Srichan (*with* Denecke, Klaus) Sets of hypersubstitutions and set-solid varieties. (English summary) **2001k:08008**
Baker, Kirby A. *see* **Agliano, Paolo, 2001f:08004**
Balog, Krisztina (*with* Czédli, Gábor) Mal'cev functions on smalgebras. (English summary) **2001c:08007**
Biegańska, Teresa (*with* Hałkowska, Katarzyna) Minimal generic of externally compatible varieties.
Chajda, Ivan (*with* Halaš, Radomír) Local coherence for locally regular algebras. (English summary) (*see* **2001d:00025**)
— Algebras satisfying certain quasiorder identities. (English summary) **2001c:08008**
— Locally coherent algebras. (English summary) **2001b:08011**
— (*with* Eigenthaler, Günther) Dually regular varieties. (English summary) **2001d:08010**
— Modifications of Csákány's theorem. (English summary) **2001d:08011**
Czédli, Gábor *see* **Balog, Krisztina, 2001c:08007**
Denecke, Klaus *see* **Hałkowska, Katarzyna, 2001b:08012** *and* **Arworn, Srichan, 2001k:08008**
Eigenthaler, Günther *see* **Chajda, Ivan, 2001d:08010**
Graczyńska, Ewa Proofs of tree identities. (English summary)
Halaš, Radomír *see* **Chajda, Ivan, (2001d:00025)**
Hałkowska, Katarzyna (*with* Denecke, Klaus) P-compatible hypersubstitutions and M_P-solid varieties. (English summary) **2001b:08012**
— *see also* **Biegańska, Teresa**
Janelidze, George (*with* Kelly, G. Max) Central extensions in Mal'tsev varieties. (English summary) **2001b:08013**
Kearnes, Keith A. A characterization of locally finite varieties that satisfy a nontrivial congruence identity. (English summary) **2001d:08012**
Kelarev, A. V. (*with* Stokes, Timothy E.) Equality algebras and varieties. (Russian. English and Russian summaries) **2001k:08009**
Kelly, G. Max *see* **Janelidze, George, 2001b:08013**
Koppitz, J. (*with* Wismath, Shelly L.) Hyperidentities for varieties of star bands. (English summary) **2001g:08003**
Padmanabhan, R. *see* **Penner, P. et al., 2001m:08009**
Penner, P. (*with* Wismath, Shelly L.; Padmanabhan, R.) M-solid varieties generated by lattices. (English summary) **2001m:08009**
Pinus, A. G. Invariants of the rational equivalence relation. (Russian. Russian summary) **2001g:08004**
— On functions that commute with semigroups of transformations of algebras. (Russian. Russian summary) **2001j:08007**
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Smirnov, D. M. Varieties defined by permutations. (Russian. Russian summary) **2001f:08005**
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Stokes, Timothy E. *see* **Kelarev, A. V., 2001k:08009**
Taylor, Walter Spaces and equations. (English summary) **2001g:08005**
Willard, Ross A finite basis theorem for residually finite, congruence meet-semidistributive varieties. (English summary) **2001h:08003**
— Extending Baker's theorem. (English summary) **2001m:08011**
Wismath, Shelly L. *see* **Koppitz, J., 2001g:08003** *and* **Penner, P. et al., 2001m:08009**
Zhang, Kun Long On a problem of G. Grätzer. (English summary) **2001k:08010**

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Aceto, Luca (*with* Ésik, Zoltán; Ingólfsdóttir, Anna) On the two-variable fragment of the equational theory of the max-sum algebra of the natural numbers. (English summary) **2001e:03061**
Adámek, Jiří (*with* Rosický, Jiří) On sifted colimits and generalized varieties. (English summary) **2001m:18001**
Bělohlávek, Radim On the regularity of MV-algebras and Wajsberg hoops.
— (*with* Chajda, Ivan) Relative deductive systems and congruence classes. (English summary)
Blok, Willem J. (*with* Ferreirim, Isabel M. A.) On the structure of hoops. (English summary) **2001g:03120**
Chajda, Ivan On n-permutable and distributive at 0 varieties. (English summary) **2001c:08009**
— (*with* Graczyńska, Ewa) Algebras presented by normal identities. (English summary) **2001b:08002**
— (*with* Halaš, Radomír; Rosenberg, Ivo G.) Ideals and the binary discriminator in universal algebra. (English summary) **2001c:08001**
— Uniformity of congruences in coherent varieties. (English summary) **2001e:08003**
— Congruence kernels in weakly regular varieties. (English summary)
— *see also* **Bělohlávek, Radim**
Crvenković, Siniša (*with* Dolinka, Igor; Vinčić, M.) Equational bases for some 0-direct unions of semigroups. (English summary) **2001j:20090**
Delić, Dejan A finitely axiomatizable undecidable equational theory with recursively solvable word problems. (English summary) **2001a:03021**
Denecke, Klaus (*with* Koppitz, J.) Fluid, unsolid, and completely unsolid varieties. (English summary) **2001m:08012**
— (*with* Hyndman, Jennifer; Wismath, Shelly L.) The Galois correspondence between subvariety lattices and monoids of hypersubstitutions. (English summary) **2001j:08002**
Dolinka, Igor *see* **Crvenković, Siniša et al., 2001j:20090**
Ésik, Zoltán The power of the group-identities for iteration. (English summary) **2001m:68127**
— *see also* **Aceto, Luca et al., 2001e:03061**
Ferreirim, Isabel M. A. *see* **Blok, Willem J., 2001g:03120**
Graczyńska, Ewa *see* **Chajda, Ivan, 2001b:08002**
Halaš, Radomír *see* **Chajda, Ivan et al., 2001c:08001**
Hyndman, Jennifer *see* **Denecke, Klaus et al., 2001j:08002**
Ingólfsdóttir, Anna *see* **Aceto, Luca et al., 2001e:03061**
Kearnes, Keith A. Almost all minimal idempotent varieties are congruence modular. (English summary) **2001j:08008**
Klunder, Barbara Varieties of pseudo-interior algebras. (English summary) **2001k:08011**
Knoebel, Arthur The shells of Vaggione: some comments and questions. (English summary) **2001i:08003**
Koppitz, J. *see* **Denecke, Klaus, 2001m:08012**
Lewin, Renato A. Interpretability into Łukasiewicz algebras. (English summary) **2001c:06011**
Myasnikov, A. G.[2] (*with* Remeslennikov, Vladimir) Algebraic geometry over groups. II. Logical foundations. (English summary) **2001i:14001**
Nikolova, D. B. (*with* Plotkin, B. I.) Some notes on universal algebraic geometry. (English summary) **2001d:08003**
Padmanabhan, R. (*with* Penner, P.) A hyperbase for binary lattice hyperidentities. (English summary) **2001b:68115**
Penner, P. *see* **Padmanabhan, R., 2001b:68115**
Pilitowska, A. (*with* Romanowska, Anna) Reductive modes. (English summary) **2001b:08004**
Pinus, A. G. Conditional terms and their applications. **2001e:03062**
— The positive and generalized discriminators don't exist. (English summary) **2001e:08006**
— On the definability of finite algebras by derived categories. (Russian)

Plotkin, B. I. *see* **Nikolova, D. B., 2001d:08003**
Popov, Vladimir Yur'evich On equational theories of ring varieties of finite characteristic. (Russian. English and Russian summaries) **2001k:16042**
Remeslennikov, Vladimir *see* **Myasnikov, A. G.[2], 2001i:14001**
Romanowska, Anna *see* **Pilitowska, A., 2001b:08004**
Rosenberg, Ivo G. *see* **Chajda, Ivan et al., 2001c:08001**
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Smirnov, D. M. Strong Mal'tsev conditions in varieties of abelian groups. (Russian. Russian summary) **2001c:20119**
Szylicka, Zyta Proper hypersubstitutions of some generalizations of lattices and Boolean algebras. (English summary) **2001g:08007**
Vinčić, M. *see* **Crvenković, Siniša et al., 2001j:20090**
Wismath, Shelly L. *see* **Denecke, Klaus et al., 2001j:08002**

08B10 Congruence modularity, congruence distributivity

Chajda, Ivan On n-permutable and distributive at 0 varieties. (English summary) **2001c:08009**
Kearnes, Keith A. Congruence modular varieties with small free spectra. (English summary) **2001h:08004**
Mamedov, O. M. On varieties with a finite number of congruence schemes. (English, Russian and Azerbaijani summaries) (*see* **2001f:00019**)

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Agliano, Paolo (*with* Baker, Kirby A.) Congruence properties of two-generated varieties. (English summary) **2001f:08004**
Aichinger, Erhard On Hagemann's and Herrmann's characterization of strictly affine complete algebras. (English summary) **2001j:08001**
Baker, Kirby A. *see* **Agliano, Paolo, 2001f:08004**
Chajda, Ivan Algebras satisfying certain quasiorder identities. (English summary) **2001c:08008**
— (*with* Graczyńska, Ewa) Algebras presented by normal identities. (English summary) **2001b:08002**
— (*with* Halaš, Radomír; Rosenberg, Ivo G.) Ideals and the binary discriminator in universal algebra. (English summary) **2001c:08001**
Czédli, Gábor (*with* Takách, Géza) On duality of submodule lattices. (English summary) **2001e:06012**
Ensor, Andrew Formations, bihomomorphisms and natural transformations. (English summary) **2001g:08001**
Graczyńska, Ewa *see* **Chajda, Ivan, 2001b:08002**
Halaš, Radomír *see* **Chajda, Ivan et al., 2001c:08001**
Kearnes, Keith A. A characterization of locally finite varieties that satisfy a nontrivial congruence identity. (English summary) **2001d:08012**
— Almost all minimal idempotent varieties are congruence modular. (English summary) **2001j:08008**
Rosenberg, Ivo G. *see* **Chajda, Ivan et al., 2001c:08001**
Takách, Géza *see* **Czédli, Gábor, 2001e:06012**
Ursini, Aldo On subtractive varieties. V. Congruence modularity and the commutators. (English summary) **2001h:08001**
Vaggione, Diego Central elements in varieties with the Fraser-Horn property. **2001b:08005**

08B15 Lattices of varieties

Babaev, Ali Avaz (*with* Mamedov, O. M.) Interpretability in varieties of Cantor algebras. (Russian. English and Azerbaijani summaries)
Denecke, Klaus (*with* Koppitz, J.) Fluid, unsolid, and completely unsolid varieties. (English summary) **2001m:08012**
Kearnes, Keith A. Almost all minimal idempotent varieties are congruence modular. (English summary) **2001j:08008**
Klunder, Barbara Varieties of pseudo-interior algebras. (English summary) **2001k:08011**
Koppitz, J. *see* **Denecke, Klaus, 2001m:08012**
Mamedov, O. M. On situation above prime-chain-primal varieties in the interpretability lattice. (Russian and Azerbaijani summaries) **2001i:08008**
— Varieties with definable principal congruences: how congruences in a (sub)direct product are determined by factors. (English and Azerbaijani summaries)
— *see also* **Babaev, Ali Avaz**
Plonka, J. Lattices of subvarieties of the clone extensions of some varieties. (English summary) **2001c:08010**
Vaggione, Diego Characterization of discriminator varieties. **2001f:08006**

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Abad, Manuel (*with* Diaz Varela, J. Patricio; Rueda, L. A.; Suardíaz, A. M.) Equational bases for three-valued Heyting algebras with a quantifier. (English summary) **2001g:03055**
Bergman, Clifford (*with* Slutzki, Giora) Complexity of some problems concerning varieties and quasi-varieties of algebras. (English summary) **2001g:68038**
Biegańska, Teresa (*with* Halkowska, Katarzyna) Minimal generic of externally compatible varieties.
Denecke, Klaus (*with* Leeratanavalee, Sorasak) Solid polynomial varieties of semigroups which are definable by identities. (English summary) **2001e:20052**
— *see also* **Halkowska, Katarzyna, 2001b:08012**
Diaz Varela, J. Patricio *see* **Abad, Manuel et al., 2001g:03055**
Dolinka, Igor All varieties of normal bands with involution. (English summary) **2001i:20120**
Faroughi, M. H. Subsemivarieties of Q-algebras. (English summary) **2001g:46105**
Halkowska, Katarzyna (*with* Denecke, Klaus) P-compatible hypersubstitutions and M_P-solid varieties. (English summary) **2001b:08012**
— *see also* **Biegańska, Teresa**
Leeratanavalee, Sorasak *see* **Denecke, Klaus, 2001e:20052**
Maksimova, Larisa Intuitionistic logic and implicit definability (English summary) **2001j:03052**
Padmanabhan, R. (*with* Penner, P.) Structures of free n-quasilattices. (English summary) **2001k:06004**
— *see also* **Penner, P. et al., 2001m:08009**
Penner, P. (*with* Wismath, Shelly L.; Padmanabhan, R.) M-solid varieties generated by lattices. (English summary) **2001m:08009**
— *see also* **Padmanabhan, R., 2001k:06004**
Petrovich, Alejandro Equational classes of totally ordered modal lattices. (English summary) **2001c:06009**
Quackenbush, R. Varieties of binary linear codes. (English summary) **2001c:94025**
Rueda, L. A. *see* **Abad, Manuel et al., 2001g:03055**
Slutzki, Giora *see* **Bergman, Clifford, 2001g:68038**
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Kravchuk, Mikhail *see* **Dobrovol'skaya, È. M.**
Stechkin, Sergeĭ Borisovich *see* **Stechkin, Sergeĭ Borisovich, 2001k:01067**
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Serre, Jean-Pierre *see* **Serre, Jean-Pierre, 2001e:01037**
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11–06 Proceedings, conferences, collections, etc.

(Adhikari, Sukumar Das) *see* **Cyclotomic fields and related topics, 2001f:11004**
(Alladi, Krishnaswami) *see* **Analytic and elementary number theory, 2001e:11003**
(Bălăcenoiu, I.) *see* **Smarandache notions, 2001d:11004** *and* **2001d:11005**
(Bayer-Fluckiger, Eva) *see* **Quadratic forms and their applications, 2001g:11003**
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(Elliott, P. D. T. A.) *see* **Analytic and elementary number theory, 2001e:11003**
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(Inkeri, Kustaa) *see* **Number theory, 2001m:11002**
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Analytic number theory and related topics ★ Kaisekiteki seisū ron to sono shūhen. (Japanese) [Analytic number theory and related topics] **2001f:11003**
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Colloquium:
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Contemporary Mathematics ★ Quadratic forms and their applications. **2001g:11003**
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Graz ★ Algebraic number theory and Diophantine analysis. **2001c:11001**
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Memorial Volume:
Erdős, Paul[1] ★ Analytic and elementary number theory. **2001e:11003**
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Ostravice ★ Proceedings of the 13th Czech and Slovak International Conference on Number Theory. **2001k:11003**
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Pune ★ Cyclotomic fields and related topics. **2001f:11004**
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School:
Cyclotomic Fields ★ Cyclotomic fields and related topics. **2001f:11004**
Seminar:
Transcendental Number Theory and Related Topics ★ Transcendental number theory and related topics. **2001c:11002**
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Symposium:
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(Bosma, Wieb) *see* **Computational algebra and number theory, 2001h:00021**
(Denef, Jan) *see* **Hilbert's tenth problem: relations with arithmetic and algebraic geometry, 2001g:00018**
(Gordon, B. Brent) *see* **Arithmetic and geometry of algebraic cycles, 2001b:14002**
(Győry, Kálmán) *see* **Dedicated to Professor Kálmán Győry on the occasion of his 60th birthday**
(Lewis, James D.) *see* **Arithmetic and geometry of algebraic cycles, 2001b:14002**
(Lipshitz, Leonard) *see* **Hilbert's tenth problem: relations with arithmetic and algebraic geometry, 2001g:00018**
(Müller-Stach, Stefan) *see* **Arithmetic and geometry of algebraic cycles, 2001b:14002**
(Pheidas, Thanases) *see* **Hilbert's tenth problem: relations with arithmetic and algebraic geometry, 2001g:00018**
(Saito, Shuji[1]) *see* **Arithmetic and geometry of algebraic cycles, 2001b:14002**
(Van Geel, Jan) *see* **Hilbert's tenth problem: relations with arithmetic and algebraic geometry, 2001g:00018**
(Yui, Noriko) *see* **Arithmetic and geometry of algebraic cycles, 2001b:14002**

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Arithmetic and geometry of algebraic cycles ★ The arithmetic and geometry of algebraic cycles. **2001b:14002**
Banff, AB ★ The arithmetic and geometry of algebraic cycles. **2001b:14002**
Birthday:
Győry, Kálmán ★ {Dedicated to Professor Kálmán Győry on the occasion of his 60th birthday}.
Computational algebra and number theory ★ Computational algebra and number theory. **2001h:00021**
Conference:
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11Axx Elementary number theory {For analogues in number fields, see 11R04.}

11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors

Ahuja, Mangho (*with* Bruening, James) A survey of divisibility tests with a historical perspective. **2001b:11002**
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Eisenberg, Theodore On divisibility by 7 and other low valued primes. (English summary)
Hilton, Peter (*with* Pedersen, Jean) A relation between the gcd and the lcm, in an arbitrary unique factorization domain, and the Chinese remainder theorem. (English summary) **2001e:11005**
Pedersen, Jean *see* **Hilton, Peter, 2001e:11005**
Smărăndache, Florentin A function in the number theory [MR 94m:11007]. (English summary) (*see* **2001f:11005**)

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Ando, Shiro (*with* Sato, Daihachiro) On p-adic complementary theorems between Pascal's triangle and the modified Pascal triangle. **2001e:11018**
Cavallar, Stefania (*with* Lemmermeyer, Franz) Euclidean windows. (English summary) **2001m:11180**
Granville, Andrew (*with* Jiménez-Urroz, Jorge) The least common multiple and lattice points on hyperbolas. (English summary) **2001f:11171**
Haukkanen, Pentti On a formula for Euler's totient function. (English summary) **2001b:11005**
— (*with* Sillanpää, Juha) An inequality for the determinant of the GCD matrix and the GCUD matrix. (English summary) **2001c:11032**
Hintenaus, Peter (*with* Trevisan, Vilmar) Rational representation of modular numbers. (English and Portuguese summaries) **2001a:11002**
Hong, Shao Fang The lower bound of the determinants of matrices associated with a class of arithmetical functions. (Chinese. Chinese summary) **2001f:11007**
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Sillanpää, Juha *see* **Haukkanen, Pentti, 2001c:11032**
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11A07 Congruences; primitive roots; residue systems

Atanassov, Krassimir T. Short remark on number theory. I.
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— (*with* Guzmán, José Ramón) A dynamical systems proof of Euler's generalization of the little theorem of Fermat. (English summary) **2001i:11005**
Cheng, Xiao Song Research on ways to construct a prime number and its primitive root. (Chinese. English and Chinese summaries) **2001k:11004**
Danas, George *see* **Terzidis, Haralambos, 2001a:11003**
Deaconescu, Marian Adding units mod n. **2001g:11004**
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Goldreich, Oded (*with* Ron, Dana; Sudan, Madhu) Chinese remaindering with errors. (English summary) **2001k:11005**
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Ji, Wan Hui The system of covering congruence expressions. (Chinese. English and Chinese summaries) **2001k:11006**
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Li, Hua-Chieh Complete and reduced residue systems of second-order recurrences modulo p. **2001i:11006**
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Luo, Yong Chao The proof of the Fermat theorem in case 1. (Chinese. English and Chinese summaries)
Ron, Dana *see* **Goldreich, Oded et al., 2001k:11005**
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Terzidis, Haralambos (*with* Danas, George) The systems of primitive roots. The degree and rank of prime numbers. (English summary) **2001a:11003**
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Ahlgren, Scott (*with* Ono, Ken) A Gaussian hypergeometric series evaluation and Apéry number congruences. (English summary) **2001c:11057**
Bui Minh Phong (*with* Fehér, János) Note on multiplicative functions satisfying congruence property. II. (English summary) **2001c:11006**
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Dilcher, Karl An extension of Fermat's little theorem, and congruences for Stirling numbers. **2001m:11023**
Dong, Xiao Lei *see* **Cao, Zhen Fu et al., 2001f:11043**
Du, Bau-Sen Obtaining new dividing formulas $n \mid Q(n)$ from the known ones. **2001d:11007**
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Halbeisen, Lorenz (*with* Hungerbühler, Norbert) On generalized Carmichael numbers. (English summary) **2001a:11011**
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Sun, Zhi-Hong Congruences concerning Bernoulli numbers and Bernoulli polynomials. (English summary) **2001m:11022**
Torney, David C. (*with* Wang, Jun[1]) Systems of linear congruences with individual moduli. (English summary) **2001i:11040**
Voloch, José Felipe Elliptic Wieferich primes. **2001g:11088**
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Wu, Sheng Li Quadratic residues and Gallagher mean values. (Chinese. English and Chinese summaries) **2001a:11141**
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11A15 Power residues, reciprocity

Francis, Richard L. (*with* Ray, Timothy) The deceptive primes to $2 \cdot 10^7$. (English summary) **2001i:11008**
Hiramatsu, Toyokazu ★ Sūron manabu hito no tame no sōgo hōsoku nyūmon. (Japanese) [Introduction to reciprocity laws for students of number theory] **2001f:11006**
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Movahhedi, A. (*with* Zahidi, M.) Symboles des restes quadratiques des discriminants dans les extensions modérément ramifiées. [Symbols of quadratic residues of discriminants in tamely ramified extensions] **2001a:11183**
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Zhang, Zhenxiang Finding strong pseudoprimes to several bases. (English summary) **2001g:11009**

11A25 Arithmetic functions; related numbers; inversion formulas

Ashbacher, Charles Solutions to some Sastry problems on Smarandache number related triangles. (*see* **2001d:11005**)
— On iterations that alternate the pseudo-Smarandache and classic functions of number theory. (*see* **2001d:11005**)
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Brown, Tom C. (*with* Hsu, Leetsch Charles; Wang, Jun[1]; Shiue, Peter Jau-Shyong) On a certain kind of generalized number-theoretical Möbius function. (English summary) **2001k:11007**
Bui Minh Phong Quasi-multiplicative functions with congruence property. (English summary) **2001d:11006**
— (*with* Fehér, János) Note on multiplicative functions satisfying congruence property. II. (English summary) **2001c:11006**
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Fehér, János *see* **Bui Minh Phong, 2001c:11006**
Finch, Steven R. Moments of the Smarandache function. (*see* **2001d:11005**)
Flammenkamp, A. (*with* Luca, Florian) Infinite families of noncototients. (English summary) **2001k:11008**
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Li, Zhong[3] Solution of two questions concerning the divisor function and the pseudo-Smarandache function. (English summary) (*see* **2001d:11005**)
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Luca, Florian Equations involving arithmetic functions of factorials. (English and Spanish summaries) **2001f:11009**
— On the equation $\varphi(|x^m - y^m|) = 2^n$. (English summary) **2001j:11002**
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11Bxx Sequences and sets

11B05 Density, gaps, topology

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Nymann, J. E. (*with* Sáenz, Ricardo A.) On a paper of Guthrie and Nymann on subsums of infinite series. (English summary) **2001f:11015**
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Deshouillers, Jean-Marc (*with* Freiman, Gregory A.; Sós, Vera; Temkin, Mikhail) On the structure of sum-free sets. II. (English and French summaries) **2001i:11011**
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Hu, Hong[2] (*with* Sun, Zhi Wei[1]) Some identities for second-order linear recurrent sequences. (Chinese. English and Chinese summaries) **2001e:11012**
Ibstedt, Henry On a Smarandache partial perfect additive sequence. (English summary)
Kang, Xiao Yu Some identities involving Chebyshev's polynomials. (Chinese. English and Chinese summaries)
Kiss, Péter On a problem concerning perfect powers in linear recurrences. (English summary) **2001a:11021**
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11B39 Fibonacci and Lucas numbers and polynomials and generalizations

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11B75 Other combinatorial number theory

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Geroldinger, Alfred *see* **Gao, Wei Dong, 2001f:11027**
Granville, Andrew (*with* Selfridge, John L.) Product of integers in an interval, modulo squares. (English summary) **2001k:11186**
Hamidoune, Yahya Ould Some results in additive number theory. I. The critical pair theory. **2001m:11173**
Hegyvári, Norbert On the representation of integers as sums of distinct terms from a fixed set. **2001c:11014**
Hofmeister, Gerd Thin bases of order two. (English summary) **2001m:11018**
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Laubie, François A recursive definition of p-ary addition without carry. (English and French summaries) **2001a:11014**
Leung, Ka Hin (*with* Ma, Siu Lun; Tan, Victor) Planar functions from Z_n to Z_n. (English summary) **2001g:05024**
Ma, Siu Lun *see* **Leung, Ka Hin et al., 2001g:05024**
Nathanson, Melvyn B. N-graphs, modular Sidon and sum-free sets, and partition identities. (English summary) **2001c:05011**
Pérez Sanz, Antonio Polygonal numbers: a box of surprises with a lot of history. (Spanish) **2001m:01076**
Pigar'ov, Yu. P. *see* **Evladenko, V. N., (2001e:00015)**
Rosales, José Carlos Numerical semigroups with Apéry sets of unique expression. (English summary) **2001g:20073**
Schoen, Tomasz On a problem of Erdős and Sárközy. (English summary) **2001m:11017**
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Serra, Oriol (*with* Zémor, Gilles) On a generalization of a theorem by Vosper. (English summary) **2001f:11178**
Tan, Victor *see* **Leung, Ka Hin et al., 2001g:05024**
Tijdeman, Rob Exact covers of balanced sequences and Fraenkel's conjecture. (English summary) **2001h:11011**
Yang, Zhao Hua An equivalent set for the $3x + 1$ conjecture. (Chinese. English and Chinese summaries) **2001f:11040**
Yazdani, Soroosh *see* **Borwein, Peter B. et al., 2001j:11061**
Zémor, Gilles *see* **Serra, Oriol, 2001f:11178**

11B83 Special sequences and polynomials

Andrews, George E. (*with* Knopfmacher, Arnold; Paule, Peter) An infinite family of Engel expansions of Rogers-Ramanujan type. (English summary) **2001h:11023**
Ashbacher, Charles On a conjecture by Russo. (*see* **2001d:11005**)
— Some problems concerning the Smarandache deconstructive sequence. (*see* **2001d:11005**)
Begay, Anthony Smarandache ceil functions. (*see* **2001d:11005**)
Bencze, Mihály Smarandache relationships and subsequences. (English summary) (*see* **2001d:11005**)
— Smarandache recurrence type sequences. (English summary) (*see* **2001d:11005**)
Cadogan, Charles Exploring the $3x + 1$ problem 1. (English summary) **2001k:11032**
Chen, Yong-Gao On addition of two Beatty sequences. (English and Chinese summaries) **2001a:11034**
Cilleruelo, Javier An upper bound for $B_2[2]$ sequences. (English summary) **2001d:11026**
French, David R. *see* **Larcombe, Peter J., 2001k:11033**
Gopalan, M. A. Short communication: note on a special sequence.
Heinis, Alex (*with* Tijdeman, Rob) Characterisation of asymptotically Sturmian sequences. (English summary) **2001e:11021**
Knopfmacher, Arnold *see* **Andrews, George E. et al., 2001h:11023**
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Marimutha, Helen Smarandache concatenate type sequences. (English summary) (*see* **2001d:11005**)
Murthy, Amarnath Some new Smarandache sequences, functions and partitions. (English summary) (*see* **2001d:11005**)
— On the divisors of Smarandache unary sequence. (*see* **2001d:11005**)
— Smarandache reciprocal partition of unity sets and sequences. (English summary) (*see* **2001d:11005**)
Paule, Peter *see* **Andrews, George E. et al., 2001h:11023**
Pétermann, Y.-F. S. (*with* Rémy, J.-L.; Vardi, Ilan) On a functional-differential equation related to Golomb's self-described sequence. (English and French summaries) **2001a:11035**
Plague, Alain A new upper bound for $B_2[2]$ sets. (English summary) **2001k:11035**
Rémy, J.-L. *see* **Pétermann, Y.-F. S. et al., 2001a:11035**
Russo, Felice Some results about four Smarandache U-product sequences. (English summary) (*see* **2001d:11005**)
— On an unsolved question about the Smarandache square-partial-digital subsequence. (English summary) (*see* **2001d:11005**)
Smith, Sylvester A set of conjectures on Smarandache sequences. (English summary) (*see* **2001d:11005**)
Taylor, Herbert *see* **Yovanof, G. S., 2001j:11007**
Tijdeman, Rob *see* **Heinis, Alex, 2001e:11021**
Vardi, Ilan *see* **Pétermann, Y.-F. S. et al., 2001a:11035**
Yang, Zhao Hua An equivalent set for the $3x + 1$ conjecture. (Chinese. English and Chinese summaries) **2001f:11040**
Yovanof, G. S. (*with* Taylor, Herbert) B_2-sequences and the distinct distance constant. (English summary) **2001j:11007**
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Ashbacher, Charles On iterations that alternate the pseudo-Smarandache and classic functions of number theory. (*see* **2001d:11005**)
Balasubramanian, Ramachandran (*with* Ramana, D. S.) Additive complements of the squares. (English and French summaries) **2001k:11019**

Ballot, Christian The density of primes p, such that -1 is a residue modulo p of two consecutive Fibonacci numbers, is 2/3. (English summary) **2001f:11021**
(Bernstein, Mira) *see* **Brualdi, Richard A.**
Brox, T. Collatz cycles with few descents. **2001a:11032**
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Diekmann, Odo (*with* van Gils, Stephan A.) Difference equations with delay. (English summary) **2001g:39012**
Dikici, Ramazan 2-step general recurrences in finite p-groups. (English summary) **2001a:20034**
Djordjević, Gospava B. Generalized Jacobsthal polynomials. **2001f:11022**
— Derivative sequences of generalized Jacobsthal and Jacobsthal-Lucas polynomials. **2001f:11023**
Fielder, Daniel C. (*with* Alford, Cecil O.) Investigating special binary sequences with some computer help. **2001b:11014**
van Gils, Stephan A. *see* **Diekmann, Odo, 2001g:39012**
Ibstedt, Henry On the pseudo-Smarandache function and iteration problems. I. The Euler φ functions. (English summary)
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Katriel, Jacob Bell numbers and coherent states. (English summary) **2001j:81099**
Margenstern, Maurice (*with* Matiyasevich, Yu. V.) A binomial representation of the $3x + 1$ problem. **2001g:11015**
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Melham, R. S. Alternating sums of fourth powers of Fibonacci and Lucas numbers. **2001f:11024**
Murthy, Amarnath Exploring some new ideas on Smarandache type sets, functions and sequences. (English summary) (*see* **2001d:11005**)
Pina, Klaus A chaotic cousin of Conway's recursive sequence. (English summary) **2001b:05011**
Ramana, D. S. *see* **Balasubramanian, Ramachandran, 2001k:11019**
Scheffold, Egon Pythagorean triples of polygonal numbers.
(Sloane, N. J. A.) *see* **Brualdi, Richard A.**
Swamy, M. N. S. Some further properties of Andre-Jeannin and their companion polynomials. **2001f:11025**
Wang, Zhang Xiong A construction method for a class of bent sequences. (Chinese. English and Chinese summaries) **2001d:94010**
Zierler, N. *see* **Buck, M., 2001f:94008**

11B85 Automata sequences

Allouche, Jean-Paul (*with* Mendès France, Michel; Peyrière, Jacques) Automatic Dirichlet series. (English summary) **2001a:11036**
— (*with* Scheicher, Klaus; Tichy, Robert F.) Regular maps in generalized number systems. (English summary) **2001i:11026**
Chang, Chih-Hao *see* **Chuan, Wai-Fong et al., 2001h:11026**
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Chuan, Wai-Fong (*with* Yu, Fei) Extraction problem of the Pell sequence. **2001h:11025**
— (*with* Chang, Chih-Hao; Chang, Yen-Liang) Suffixes of Fibonacci word patterns. **2001h:11026**
von Haeseler, F. (*with* Peitgen, Heinz-Otto; Skordev, G.) On the fractal structure of the rescaled evolution set of Carlitz sequences of polynomials. (English summary) **2001g:11029**
Ketkar, Pallavi (*with* Zamboni, Luca Q.) Primitive substitutive numbers are closed under rational multiplication. (English and French summaries) **2001m:11026**
Leinfellner, Helmut New results on rarefied sums of the Thue-Morse sequence. (English summary) **2001j:11008**
Masáková, Zuzana (*with* Patera, Jiří; Pelantová, Edita) Substitution rules for aperiodic sequences of the cut and project type. (English summary) **2001h:11027**
Mendès France, Michel *see* **Allouche, Jean-Paul et al., 2001a:11036**
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Peitgen, Heinz-Otto *see* **von Haeseler, F. et al., 2001g:11029**
Pelantová, Edita *see* **Masáková, Zuzana et al., 2001h:11027**
Peyrière, Jacques *see* **Allouche, Jean-Paul et al., 2001a:11036**
Scheicher, Klaus *see* **Allouche, Jean-Paul et al., 2001i:11026**
Skordev, G. *see* **von Haeseler, F. et al., 2001g:11029**
Tamura, Jun-Ichi Padé approximation for words generated by certain substitutions, and Hankel determinants. (English summary) **2001e:11022**
— Certain word and tiling of high dimension, and a p-adic phenomenon. (*see* **2001f:11003**)
Tichy, Robert F. *see* **Allouche, Jean-Paul et al., 2001i:11026**
Yasutomi, Shin-Ichi On Sturmian sequences which are invariant under some substitutions. (English summary) **2001a:11037**
Yu, Fei *see* **Chuan, Wai-Fong, 2001h:11025**
Zamboni, Luca Q. *see* **Ketkar, Pallavi, 2001m:11026**

Items with secondary classifications in 11B85

Allouche, Jean-Paul Cellular automata, finite automata, and number theory.
— (*with* Shallit, Jeffrey O.) Sums of digits, overlaps, and palindromes. (English summary) **2001c:11009**
Berthé, Valérie Sequences of low complexity: automatic and Sturmian sequences. (English summary) **2001e:37012**
Cobeli, Cristian (*with* Crâşmaru, M.; Zaharescu, Alexandru) A cellular automaton on a torus. (English summary) **2001f:37017**
Crâşmaru, M. *see* **Cobeli, Cristian et al., 2001f:37017**
Frougny, Christiane On-line finite automata for addition in some numeration systems. (English summary) **2001b:68075**
Grabner, Peter J. (*with* Thuswaldner, Jörg M.) On the sum of digits function for number systems with negative bases. (English summary) **2001m:11015**
Halava, Vesa (*with* Harju, Tero; Ilie, Lucian) Periods and binary words. (English summary) **2001d:68184**
Harase, Takashi Algebraicity and rationality of formal power series over $\mathbf{F}_q$. (English summary) (*see* **2001f:11003**)
Harju, Tero *see* **Halava, Vesa et al., 2001d:68184**
Holton, Charles (*with* Zamboni, Luca Q.) Iteration of maps by primitive substitutive sequences. (English summary) **2001i:37023**
Ilie, Lucian *see* **Halava, Vesa et al., 2001d:68184**
Livshits, A. N. Some applications of computer to investigation of substitutional dynamical systems. (Russian summary) **2001e:37016**
Mauduit, Christian Problem session dedicated to Gérard Rauzy. **2001i:11001**
Mendès France, Michel (*with* Sebbar, Ahmed) Pliages de papiers, fonctions thêta et méthode du cercle. [Paper foldings, theta functions and the circle method] **2001f:11176**
Puchta, Jan-Christoph (*with* Spilker, Jürgen) Die Thue-Morse-Folge. [The Thue-Morse sequence] **2001k:11146**
(Rauzy, Gérard) *see* **Mauduit, Christian, 2001i:11001**
Rigo, Michel Generalization of automatic sequences for numeration systems on a regular language. (English summary) **2001i:68104**
Risley, Rebecca N. (*with* Zamboni, Luca Q.) A generalization of Sturmian sequences: combinatorial structure and transcendence. (English summary) **2001m:68146**
Sebbar, Ahmed *see* **Mendès France, Michel, 2001f:11176**
Shallit, Jeffrey O. Automaticity and rationality. (English summary) **2001h:68083**
— *see also* **Allouche, Jean-Paul, 2001c:11009**
Sirvent, Víctor F. The common dynamics of the Tribonacci substitutions. (English summary) **2001m:37028**
Spilker, Jürgen *see* **Puchta, Jan-Christoph, 2001k:11146**
Thuswaldner, Jörg M. *see* **Grabner, Peter J., 2001m:11015**
Yasutomi, Shin-Ichi Dynamical representations of substituted Sturmian sequences. (*see* **2001f:11003**)
Zaharescu, Alexandru *see* **Cobeli, Cristian et al., 2001f:37017**
Zamboni, Luca Q. *see* **Holton, Charles, 2001i:37023** *and* **Risley, Rebecca N., 2001m:68146**

11B99 None of the above, but in this section

Items with secondary classifications in 11B99

Cleary, Sean Regular subdivision in $\mathbf{Z}[\frac{1+\sqrt{3}}{2}]$. (English summary) **2001h:20051**

11Cxx Polynomials and matrices

11C08 Polynomials [see also 13F20]

Ayad, Mohamed (*with* McQuillan, Donald L.) Irreducibility of the iterates of a quadratic polynomial over a field. **2001c:11031**
Barsky, Daniel (*with* Bézivin, J. P.) Sur les suites exponentielles généralisées. (English and French summaries) [Generalized exponential sequences] **2001e:11023**
Bézivin, J. P. *see* **Barsky, Daniel, 2001e:11023**
Borwein, Peter B. (*with* Mossinghoff, Michael J.) Polynomials with height 1 and prescribed vanishing at 1. (English summary) **2001k:11036**
Darsaliya, V. Sh. Completeness conditions for polynomials with natural, integer and rational coefficients. (Russian. English and Russian summaries) **2001g:11030**
Dilcher, Karl Nested squares and evaluations of integer products. (English summary) **2001g:11031**
Dubickas, Artūras On the number of polynomials of small house. (English and Lithuanian summaries) **2001d:11027**
— Polynomials with a root close to an integer. (English and Lithuanian summaries) **2001k:11037**
Filaseta, M. (*with* Ford, Kevin B.; Konyagin, Sergei V.) On an irreducibility theorem of A. Schinzel associated with coverings of the integers. (English summary) **2001g:11032**
Ford, Kevin B. *see* **Filaseta, M. et al., 2001g:11032**
Halter-Koch, Franz (*with* Narkiewicz, Władysław) Scarcity of finite polynomial orbits. (English summary) **2001h:11028**
Konyagin, Sergei V. *see* **Filaseta, M. et al., 2001g:11032**
Leyendekkers, J. V. (*with* Shannon, Anthony G.) The Cardano family of equations. (English summary) **2001d:11028**
Martynov, B. Fermat's theorem for polynomials [Kvant **1976**, no. 8, 12–16]. (*see* **2001b:00011**)
Masseron, Jean-Christophe Propriétés arithmétiques de fractions rationnelles à coefficients algébriques. [Arithmetical properties of rational fractions with algebraic coefficients] **2001c:11024**
Maulik, Davesh Root sets of polynomials modulo prime powers. (English summary) **2001k:11038**
McQuillan, Donald L. *see* **Ayad, Mohamed, 2001c:11031**
Mossinghoff, Michael J. *see* **Borwein, Peter B., 2001k:11036**
Murphy, Brian Modelling the yield of number field sieve polynomials. (English summary) **2001d:11029**
Narkiewicz, Władysław Finite polynomial orbits. A survey. (English summary) **2001e:11025**
— *see also* **Halter-Koch, Franz, 2001h:11028**
Shannon, Anthony G. *see* **Leyendekkers, J. V., 2001d:11028**
Snyder, Noah An alternate proof of Mason's theorem. **2001g:11033**

Items with secondary classifications in 11C08

Borwein, Peter B. Some old problems on polynomials with integer coefficients. (English summary) **2001b:41004**
Boulanger, Jacques (*with* Chabert, Jean-Luc) An extension of the Lucas theorem. **2001m:13031**

Chabert, Jean-Luc *see* **Boulanger, Jacques, 2001m:13031**
DiPippo, Stephen A. (*with* Howe, Everett W.) Corrigendum: "Real polynomials with all roots on the unit circle and abelian varieties over finite fields" [J. Number Theory **73** (1998), no. 2, 426–450; MR 2000c:11101]. **Glasser, M. L.** Hypergeometric functions and the trinomial equation. (English summary) **2001g:33014**
Howe, Everett W. *see* **DiPippo, Stephen A.**
Langevin, Michel Imbrications entre le théorème de Mason, la descente de Belyĭ et les différentes formes de la conjecture (*abc*). (English and French summaries) [The overlap among Mason's theorem, the Belyĭ descent and the various forms of the (*abc*) conjecture] **2001b:11023**
Poulakis, Dimitrios Sur la réduction modulo p des polynômes absolument irréductibles. (English and French summaries) [Reduction modulo p of absolutely irreducible polynomials] **2001a:11110**
Pritsker, Igor E. Chebyshev polynomials with integer coefficients. (English summary) **2001h:30007**
Schinzel, Andrzej Reducibility of lacunary polynomials. XII. **2001b:11099**
— ★ Polynomials with special regard to reducibility. (English summary) **2001h:11135**
(Zannier, Umberto) *see* **Schinzel, Andrzej, 2001h:11135**

11C20 Matrices, determinants [see also 15A36]

Grytczuk, Aleksander On a problem connected with matrices over Z_3. (English summary) **2001b:11020**
Haukkanen, Pentti (*with* Sillanpää, Juha) An inequality for the determinant of the GCD matrix and the GCUD matrix. (English summary) **2001c:11032**
Herceg, Dragoslav (*with* Maličić, Helena; Likić, Ivana) The Zeckendorf numbers and the inverses of some band matrices. **2001j:11009**
Likić, Ivana *see* **Herceg, Dragoslav et al., 2001j:11009**
Maličić, Helena *see* **Herceg, Dragoslav et al., 2001j:11009**
Sillanpää, Juha *see* **Haukkanen, Pentti, 2001c:11032**
Teitloff, Timothy C. Permutation polynomials on symmetric matrices. (English summary) **2001h:11029**
Xu, De Xiang The determinants of GGCD and GLCM matrices. (Chinese. English and Chinese summaries) **2001h:11030**

Items with secondary classifications in 11C20

Cooper, Curtis *see* **Melham, R. S., 2001e:11019**
DeVos, Matt Matrix choosability. (English summary) **2001a:15018**
Hong, Shao Fang The lower bound of the determinants of matrices associated with a class of arithmetical functions. (Chinese. Chinese summary) **2001f:11007**
Lorenzini, Dino Arithmetical properties of Laplacians of graphs. (English summary) **2001e:05082**
Melham, R. S. (*with* Cooper, Curtis) The eigenvectors of a certain matrix of binomial coefficients. **2001e:11019**
Nguyen-Huu-Boog Fibonacci matrices and matrix representation of Fibonacci numbers. (English summary) **2001i:11018**
Shah, Nimish A. Counting integral matrices with a given characteristic polynomial. (English summary) **2001i:22010**
Tamura, Jun-Ichi Certain partitions of a lattice. (English summary) **2001j:37030**

11Dxx Diophantine equations [see also 11Gxx, 14Gxx]

11D04 Linear equations

Altindis, Hüseyin The solutions of the linear Diophantine equation $ax + by = c$ by the matrix product. (English summary)
Chaladus, S. (*with* Schinzel, Andrzej) On a linear Diophantine equation. **2001e:11026**
Chapman, Scott T. (*with* Krause, Ulrich; Oeljeklaus, Eberhard) Monoids determined by a homogeneous linear Diophantine equation and the half-factorial property. (English summary) **2001g:11034**
Henk, Martin (*with* Weismantel, Robert) On minimal solutions of Diophantine equations. (English summary) **2001a:11038**
Kan, I. D. On the Frobenius problem. (Russian. English and Russian summaries) **2001i:11027**
Killingbergtrø, Hans Georg Using figures in Frobenius' problem. (Norwegian. English summary) **2001d:11030**
Krause, Ulrich *see* **Chapman, Scott T. et al., 2001g:11034**
Krivol, S. L. A compatibility criterion for systems of linear homogeneous Diophantine equations over the set of natural numbers. (Russian. English summary) **2001a:11039**
Oeljeklaus, Eberhard *see* **Chapman, Scott T. et al., 2001g:11034**
Ribenboim, Paulo The (ABC) conjecture and the radical index of integers. **2001m:11027**
Schinzel, Andrzej *see* **Chaladus, S., 2001e:11026**
Weismantel, Robert *see* **Henk, Martin, 2001a:11038**
Zheng, Ying Wei The number of positive integer solutions of binary linear equations. (Chinese. English and Chinese summaries) **2001k:11039**

Items with secondary classifications in 11D04

Fishburn, Peter C. Integer solutions to interval linear equations and unique measurement. (English summary) **2001k:91104**
Hindman, Neil (*with* Maleki, Amir; Strauss, Dona Papert) Linear equations in the Stone-Čech compactification of N. (English summary) **2001i:54020**
Korzun, D. G. On the existence of generators of a CF-grammar for an arbitrary linear Diophantine system. (Russian. English and Russian summaries) **2001b:68069**
Krivol, S. L. On some methods for solving and criteria for the compatibility of systems of linear Diophantine equations in the domain of natural numbers. (Russian. English and Ukrainian summaries) **2001a:11207**
Maleki, Amir *see* **Hindman, Neil et al., 2001i:54020**
Schoen, Tomasz On sets of natural numbers without solution to a noninvariant linear equation. **2001f:11038**
Strauss, Dona Papert *see* **Hindman, Neil et al., 2001i:54020**
Tripathi, Amitabha The number of solutions to $ax + by = n$. **2001d:11036**

11D09 Quadratic and bilinear equations

Atanassov, Krassimir T. *see* **Vassilev-Missana, Mladen V., (2001d:11005)**
Bapoungué, Lionel Sur les solutions générales de l'équation diophantienne $ax^2 + 2bxy - kay^2 = \pm 1$. (English and French summaries) [General solutions of the Diophantine equation $ax^2 + 2bxy - kay^2 = \pm 1$] **2001a:11040**
Beauregard, Raymond A. (*with* Suryanarayan, E. R.) General arithmetic triangles and Bhaskara's equation. **2001f:11041**
Chen, Zhi Yun (*with* Zhang, Ben Jin) On the system of Diophantine equations $x^2 - 2y^2 = 1$ and $y^2 - 150z^2 = 4$. (Chinese. English and Chinese summaries) **2001d:11031**
Feit, Walter Some Diophantine equations of the form $x^2 - py^2 = z$. (English summary) **2001i:11028**
Ganapathy, R. *see* **Gopalan, M. A.**
Gopalan, M. A. Note on the Diophantine equation $x^2 + axy + by^2 = z^2$.
— (*with* Ganapathy, R.) Note on the Diophantine equation $x^2 - 3xy + y^2 + 10x - 10y + 21 = 0$. (English summary)
Grytczuk, Aleksander (*with* Luca, Florian; Wójtowicz, Marek) The negative Pell equation and Pythagorean triples. (English summary) **2001c:11033**
Hashimoto, Ryōta The Ostrowski representations of integer solutions to binary quadratic indeterminate equations. (Japanese. Japanese summary) (*see* **2001h:00016**)
Hitotumatu, Sin Pythagorean pseudocircle. (English summary) **2001a:11041**
Hlawka, Edmund Pythagorean triples. **2001e:11027**
Kaja, Ifeoma *see* **Petulante, Nelson, 2001h:11031**
Katayama, Shin-ichi Several methods for solving simultaneous Fermat-Pell equations. (English summary) **2001c:11034**
Louboutin, Stéphane (*with* Newman, M. F.) On the Diophantine equation $XY + YZ + ZX = D$. (English summary) **2001m:11028**
Luca, Florian *see* **Grytczuk, Aleksander et al., 2001c:11033**
Matthews, Keith The Diophantine equation $x^2 - Dy^2 = N$, $D > 0$. (English summary) **2001i:11029**
Newman, M. F. *see* **Louboutin, Stéphane, 2001m:11028**
Petulante, Nelson (*with* Kaja, Ifeoma) How to generate all integral triangles containing a given angle. (English summary) **2001h:11031**
Scheffold, Egon Pythagorean triples of polygonal numbers.
Shannon, Anthony G. *see* **Turner, John Christopher, 2001b:11021**
Su, Xiao Yan Integer solutions of the system of equations $x^2 - 6y^2 = 1$ and $y^2 - Dz^2 = 4$. (Chinese. English and Chinese summaries) **2001g:11035**
Suryanarayan, E. R. *see* **Beauregard, Raymond A., 2001f:11041**
Turner, John Christopher (*with* Shannon, Anthony G.) On Fibonacci sequences, geometry, and the m-square equation. **2001b:11021**
Vassilev-Missana, Mladen V. (*with* Atanassov, Krassimir T.) Note on the Diophantine equation $2x^2 - 3y^2 = p$. (*see* **2001d:11005**)
Wade, Peter W. (*with* Wade, William R.) Recursions that produce Pythagorean triples. **2001d:11032**
Wade, William R. *see* **Wade, Peter W., 2001d:11032**
Wójtowicz, Marek Algebraic structures of some sets of Pythagorean triples. I. (English summary) **2001a:11042**
— *see also* **Grytczuk, Aleksander et al., 2001c:11033**
Yuan, Ping Zhi Positive integer solutions of the equation $xy + yz + zx = n$. (Chinese. English and Chinese summaries) **2001g:11036**
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Luo, Ming On the Diophantine equation $X(X+1)(X+2)(X+3) = 6Y(Y+1)(Y+2)(Y+3)$. (English summary) **2001m:11030**
Mollin, R. A. (*with* van der Poorten, Alfred J.) Continued fractions, Jacobi symbols, and quadratic Diophantine equations. (English summary) **2001a:11049**
Pohst, Michael E. On Legendre's equation over number fields. (English summary) **2001f:11106**
van der Poorten, Alfred J. *see* **Mollin, R. A., 2001a:11049**

11D25 Cubic and quartic equations

Brown, Ezra Three Fermat trails to elliptic curves. **2001f:11042**
Buchholz, Ralph H. (*with* MacDougall, James A.) When Newton met Diophantus: a study of rational-derived polynomials and their extension to quadratic fields. (English summary) **2001c:11035**
Cao, Zhen Fu (*with* Mu, Shanzhi; Dong, Xiao Lei) A new proof of a conjecture of Antoniadis. (English summary) **2001f:11043**
— The Diophantine equation $my(y+1)(y+2)(y+3) = nx(x+1)(x+2)(x+3)$. (Chinese. English and Chinese summaries)
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Chen, Jian Hua[1] A note on the Diophantine equation $a^2x^4 - By^2 = 1$. **2001k:11040**
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Dong, Xiao Lei *see* **Cao, Zhen Fu et al., 2001f:11043**

Dujella, Andrej A note on Diophantine quintuples. (English summary) **2001f:11044**
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Grytczuk, Aleksander (*with* Wójtowicz, Marek) Beardon's Diophantine equations and non-free Möbius groups. **2001f:11045**
Istrăţescu, Vasile Ion On the Diophantine equation $x^4 - 2y^4 = 1$.
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Lin, Jun *see* **Yuan, Ping Zhi, 2001g:11037**
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Ma, Wu Yu *see* **Wang, Yun Kui**
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— (*with* Pethő, Attila) Integer points on a family of elliptic curves. (English summary) **2001f:11087**
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Kida, Masanari Computing elliptic curves having good reduction everywhere over quadratic fields. II. (English summary) **2001k:11100**
Koyama, Kenji On searching for solutions of the Diophantine equation $x^3 + y^3 + 2z^3 = n$. (English summary) **2001a:11206**
Parsell, Scott T. The density of rational lines on cubic hypersurfaces. (English summary) **2001j:11010**
Pethő, Attila *see* **Dujella, Andrej, 2001f:11087**
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— Corrigendum to the paper: "The number of solutions of the Mordell equation" [Acta. Arith. **88** (1999), no. 2, 173–179; MR 2001f:11090]. **2001i:11068**
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11D41 Higher degree equations; Fermat's equation

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Baica, Malvina Baica's Euclidean solution of Fermat's last theorem (FLT). (English summary) **2001k:11041**
Berndt, Bruce C. (*with* Galway, William F.) On the Brocard-Ramanujan Diophantine equation $n! + 1 = m^2$. (English summary) **2001a:11044**
Bilu, Yuri F. (*with* Tichy, Robert F.) The Diophantine equation $f(x) = g(y)$. **2001i:11031**
Brindza, B. (*with* Hajdu, Lajos; Ruzsa, Imre Z.) On the equation $x(x+d)\cdots(x+(k-1)d) = by^2$. (English summary) **2001d:11034**
Bruin, Nils The Diophantine equations $x^2 \pm y^4 = \pm z^6$ and $x^2 + y^8 = z^3$. (English summary) **2001d:11035**
Bugeaud, Yann On the greatest prime factor of $ax^m + by^n$. II. (English summary) **2001g:11038**
Bulia, N. On some restrictions of quasi-regular numbers. (Russian. English summary) **2001m:11032**
Chen, Zhi Yun (*with* Wang, Liang Sheng) A comment on the proof of Fermat's last theorem. (Chinese. English and Chinese summaries) **2001k:11042**
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Jiang, Chun-Xuan Complex hyperbolic functions and Fermat's last theorem. (English summary)
Kolyvagin, V. A. The first case of Fermat's theorem for cyclotomic fields. (Russian. Russian summary) **2001h:11035**
Kraus, Alain On the equation $x^p + y^q = z^r$: a survey. (English summary) **2001f:11046**
Li, Fo Qi Integer solutions of the indefinite equation $px^2 + qy^2 = z^n$. (Chinese. English and Chinese summaries) **2001c:11039**
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Ruzsa, Imre Z. *see* **Brindza, B. et al., 2001d:11034**
Sury, B. On the Diophantine equation $x^2 + 2 = y^n$. (English summary) **2001c:11040**
Szalay, László Fast algorithm for solving superelliptic equations of certain types. (English summary) **2001k:11043**
Terai, Nobuhiro On the Diophantine equations on binomial coefficients. (*see* **2001f:11003**)
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Brindza, B. (*with* Pintér, Á.) On the number of solutions of the equation $1^k + 2^k + \cdots + (x-1)^k = y^z$. **2001i:11032**
Buchholz, Ralph H. (*with* MacDougall, James A.) When Newton met Diophantus: a study of rational-derived polynomials and their extension to quadratic fields. (English summary) **2001c:11035**
Cao, Zhen Fu (*with* Dong, Xiao Lei) Diophantine equations and class numbers of imaginary quadratic fields. (English summary) **2001k:11222**
Choudhry, Ajai On sums of seventh powers. (English summary) **2001f:11167**
Darmon, Henri Rigid local systems, Hilbert modular forms, and Fermat's last theorem. **2001i:11071**
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Kato, Kazuya How Fermat's Last Theorem was proved. **2001g:11001**
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Poulakis, Dimitrios (*with* Voskos, Evaggelos) On the practical solution of genus zero Diophantine equations. (English summary) **2001j:11126**
Shannon, Anthony G. *see* **Leyendekkers, J. V., 2001e:11001**
Silverman, Joseph H. On the distribution of integer points on curves of genus zero. (English summary) **2001h:11080**
Stoll, Thomas *see* **Bilu, Yuri F. et al., 2001k:11192**
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Yang, Jae Hyun The past twenty years of the theory of elliptic curves. (Korean. Korean summary) **2001j:11038**

11D45 Counting solutions of Diophantine equations

Andrews, George E. Stacked lattice boxes. (English summary) **2001g:11039**
Brindza, B. (*with* Pintér, Á.) On the number of solutions of the equation $1^k + 2^k + \cdots + (x-1)^k = y^z$. **2001i:11032**
Jenkner, Wolfgang Asymptotic aspects of the Diophantine equation $p^k x^{nk} - z^k = l$. **2001a:11048**
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Moon, Younggu (*with* Lee, June Bok; Park, Young Ho) Counting formula for solutions of diagonal equations. (English summary) **2001h:11037**
Park, Young Ho *see* **Moon, Younggu et al., 2001h:11037**
Parsell, Scott T. The density of rational lines on cubic hypersurfaces. (English summary) **2001j:11010**
Pintér, Á. *see* **Brindza, B., 2001i:11032**
Shen, Fu Xing *see* **Yin, Dong Sheng, 2001m:11037**
Tripathi, Amitabha The number of solutions to $ax + by = n$. **2001d:11036**
Yin, Dong Sheng (*with* Shen, Fu Xing) A δ-combinatorial counting method for solutions of Diophantine equations and its applications. (Chinese. English and Chinese summaries) **2001m:11037**

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Arnol'd, V. I. Weak asymptotics of the numbers of solutions of Diophantine equations. (Russian) **2001k:11190**
Brindza, B. (*with* Hajdu, Lajos; Ruzsa, Imre Z.) On the equation $x(x+d)\cdots(x+(k-1)d) = by^2$. (English summary) **2001d:11034**
Clark, Lane On the representation of m as $\sum_{k=-n}^{n} e_k k$. (English summary) **2001c:11011**
Hajdu, Lajos *see* **Brindza, B. et al., 2001d:11034**
Kirschenhofer, Peter (*with* Pfeiffer, Oliver) On a class of combinatorial Diophantine equations. (English summary) **2001m:05017**
Le, Mao Hua The number of solutions for a class of exponential Diophantine equations. (Chinese. English and Chinese summaries) **2001m:11039**
Locher, Helmut On the number of solutions in algebraic integers of the Thue-Mahler equation. **2001k:11048**
Parsell, Scott T. Multiple exponential sums over smooth numbers. (English summary) **2001m:11140**
Pfeiffer, Oliver *see* **Kirschenhofer, Peter, 2001m:05017**
Pink, I. (*with* Tengely, Sz.) Full powers in arithmetic progressions. (English summary) **2001j:11011**
Ribenboim, Paulo The (ABC) conjecture and the radical index of integers. **2001m:11027**
Ruzsa, Imre Z. *see* **Brindza, B. et al., 2001d:11034**
Tengely, Sz. *see* **Pink, I., 2001j:11011**

11D57 Multiplicative and norm form equations

Bérczes, A. On the number of solutions of index form equations. (English summary) **2001i:11033**
Evertse, Jan-Hendrik On the norm form inequality $|F(x)| \le h$. (English summary) **2001g:11040**
Gaál, István Solving index form equations in fields of degree 9 with cubic subfields. (English summary) **2001g:11041**
— An efficient algorithm for the explicit resolution of norm equations. (English summary) **2001k:11047**
Győry, Kálmán Discriminant form and index form equations. (English summary) **2001f:11047**
Liu, Yuan-zong On the problem of all equal positive odd number solutions of the dissemination of the Endős' guess. (English and Chinese summaries) [On the problem of all equal positive odd number solutions of the dissemination of the Erdős' guess]
Mollin, R. A. (*with* van der Poorten, Alfred J.) Continued fractions, Jacobi symbols, and quadratic Diophantine equations. (English summary) **2001a:11049**
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11D59 Thue-Mahler equations

Bugeaud, Yann (*with* Hajdu, Lajos) Lower bounds for the difference $ax^n - by^m$. (English summary) **2001i:11034**
Hajdu, Lajos *see* **Bugeaud, Yann, 2001i:11034**
Heuberger, Clemens On general families of parametrized Thue equations. (English summary) **2001f:11048**
Locher, Helmut On the number of solutions in algebraic integers of the Thue-Mahler equation. **2001k:11048**
Wakabayashi, Isao On a family of quartic Thue inequalities. II. (English summary) **2001h:11038**

Items with secondary classifications in 11D59

Bean, Michael A. (*with* Laugesen, Richard Snyder) Binary forms, equiangular polygons and harmonic measure. (English summary) **2001i:11039**
Bugeaud, Yann Fundamental systems of S-units with small height and their applications to Diophantine equations. (English summary) **2001d:11037**
Gaál, István Solving index form equations in fields of degree 9 with cubic subfields. (English summary) **2001g:11041**
Laugesen, Richard Snyder *see* **Bean, Michael A., 2001i:11039**
Mignotte, Maurice Pethő's cubics. (English summary) **2001h:11033**
Pink, I. (*with* Tengely, Sz.) Full powers in arithmetic progressions. (English summary) **2001j:11011**
Poulakis, Dimitrios (*with* Voskos, Evaggelos) On the practical solution of genus zero Diophantine equations. (English summary) **2001j:11126**
Tengely, Sz. *see* **Pink, I., 2001j:11011**
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11D61 Exponential equations

Bugeaud, Yann (*with* Mignotte, Maurice) Sur l'équation diophantienne $(x^n - 1)/(x - 1) = y^q$. II. (English and French summaries) [On the Diophantine equation $(x^n - 1)/(x - 1) = y^q$. II] **2001f:11050**
— (*with* Mignotte, Maurice; Roy, Yves) On the Diophantine equation $(x^n - 1)/(x - 1) = y^q$. (English summary) **2001f:11049**
— Fundamental systems of S-units with small height and their applications to Diophantine equations. (English summary) **2001d:11037**
Cao, Zhen Fu A kind of Diophantine equations in finite simple groups. (English summary) **2001m:11038**
— *see also* **Dong, Xiao Lei, 2001i:11035**
Chen, Wen Jing The Diophantine equations $\frac{x^n-1}{x-1} = y^n$ and $\frac{x^n+1}{x+1} = y^n (2 \nmid m)$. (Chinese. English and Chinese summaries)
Cohen, G. L. *see* **Deng, Moujie, 2001h:11039**
Corvaja, Pietro (*with* Zannier, Umberto) On the Diophantine equation $f(a^m, y) = b^n$. **2001c:11041**
Deng, Moujie (*with* Cohen, G. L.) A note on a conjecture of Jeśmanowicz. (English summary) **2001h:11039**
Dong, Xiao Lei (*with* Cao, Zhen Fu) The Terai-Jeśmanowicz conjecture on the equation $a^x + b^y = c^z$. (Chinese. Chinese summary) **2001i:11035**
Győry, Kálmán Power values of binomial coefficients. **2001d:11038**
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Hajdu, Lajos (*with* Szalay, László) On the Diophantine equations $(2^n - 1)(6^n - 1) = x^2$ and $(a^n - 1)(a^{kn} - 1) = x^2$. (English summary) **2001k:11049**
Kramer, Alpar-Vajk (*with* Luca, Florian) Some remarks on Heron triangles. (English summary) **2001i:11036**
Le, Mao Hua On Terai's conjecture concerning Pythagorean numbers. (English summary) **2001a:11051**
— The number of solutions for a class of exponential Diophantine equations. (Chinese. English and Chinese summaries) **2001m:11039**
Li, Zhong[3] Prime powers in sums of squares of two consecutive positive integers. (Chinese. English and Chinese summaries)
Luca, Florian On a Diophantine equation. (English summary) **2001a:11052**
— (*with* Mignotte, Maurice; Roy, Yves) On the equation $x^y \pm y^x = \prod n_i!$. (English summary) **2001i:11037**
— (*with* Mignotte, Maurice) On the equation $y^x \pm x^y = z^2$. (English summary) **2001h:11040**
— On a conjecture of Erdős and Stewart. (English summary) **2001g:11042**
— *see also* **Kramer, Alpar-Vajk, 2001i:11036**
Mignotte, Maurice On the Diophantine equation $\frac{x^n-1}{x-1} = y^q$. (English summary) **2001g:11043**
— *see also* **Bugeaud, Yann et al., 2001f:11049; 2001f:11050; Luca, Florian et al., 2001h:11040** *and* **2001i:11037**
Mo, De Ze Exponential Diophantine equations with four terms. III. (Chinese. English and Chinese summaries) **2001g:11044**
Mueller, Julia S-unit equations in function fields via the abc-theorem. **2001a:11053**
Muriefah, Fadwa S. Abu On the Diophantine equation $px^2 + 3^n = y^p$. (English summary) **2001a:11054**
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Pink, I. (*with* Tengely, Sz.) Full powers in arithmetic progressions. (English summary) **2001j:11011**
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— *see also* **Schlickewei, H. P., 2001b:11022**
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Szalay, László On the Diophantine equation $(2^n - 1)(3^n - 1) = x^2$. (English summary) **2001e:11028**
— *see also* **Hajdu, Lajos, 2001k:11049**
Tengely, Sz. *see* **Pink, I., 2001j:11011**
Terai, Nobuhiro A remark on a conjecture concerning Eisenstein numbers. (English and French summaries) **2001e:11029**
Vaserstein, L. N. Quantum (abc)-theorems. (English summary) **2001d:11039**
Yuan, Ping Zhi Generalized Lucas sequences and Diophantine equations. I. (Chinese. English and Chinese summaries) **2001c:11042**
— Multiplicity of generalized Lucas sequences and the number of solutions of the related Diophantine equations. (Chinese. English and Chinese summaries) **2001g:11046**
Zannier, Umberto *see* **Corvaja, Pietro, 2001c:11041**

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Bugeaud, Yann Lower bounds for the greatest prime factor of $ax^m + by^n$. (English summary) **2001m:11041**
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11E12 Quadratic forms over global rings and fields

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11E16 General binary quadratic forms

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11E39 Bilinear and Hermitian forms

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11E41 Class numbers of quadratic and Hermitian forms

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11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)

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11E70 K-theory of quadratic and Hermitian forms

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11E81 Algebraic theory of quadratic forms; Witt groups and rings [see also 19G12, 19G24]

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11E88 Quadratic spaces; Clifford algebras [see also 15A63, 15A66]

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Hoffman, J. William (*with* Morales, Jorge F.) Arithmetic of binary cubic forms. (English summary) **2001h:11048**
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11E95 p-adic theory

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11E99 None of the above, but in this section

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11Fxx Discontinuous groups and automorphic forms {For relations with quadratic forms, see 11E45.}

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11F03 Modular and automorphic functions

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Kaneko, Masanobu On the zeros of certain modular forms. (English summary) **2001c:11056**
Kim, Chang Heon (*with* Koo, Ja Kyung) Arithmetic of the modular function j_4. (English summary) **2001a:11078**
— (*with* Koo, Ja Kyung) Arithmetic of the modular function $j_{1,8}$. (English summary) **2001k:11069**
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11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

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— (*with* Lim, Chong-Hai; Tan, Ser-Peow) Principal congruence subgroups of the Hecke groups. (English summary) **2001i:11047**
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11F11 Modular forms, one variable

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Kaneko, Masanobu On the zeros of certain modular forms. (English summary) **2001c:11056**
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Olver, Peter J. (*with* Sanders, Jan A.) Transvectants, modular forms, and the Heisenberg algebra. (English summary) **2001j:11016**
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Baruah, Nayandeep Deka A few theta-function identities and some of Ramanujan's modular equations. (English summary) **2001j:11020**
Berndt, Bruce C. Modular equations in Ramanujan's lost notebook. **2001d:11047**
Borcherds, Richard E. Reflection groups of Lorentzian lattices. **2001h:11086**
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11F22 Relationship to Lie algebras and finite simple groups

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11F30 Fourier coefficients of automorphic forms

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Hibino, Takeshi Formulae for relating the modular invariants and defining equations of $X_0(40)$ and $X_0(48)$. **2001a:11100**
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Vinogradov, A. I. On a conjecture of Linnik. I. (Russian. English and Russian summaries) **2001a:11143**
Walling, Lynne H. *see* **Hoffstein, Jeffrey et al., 2001d:11054**
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11F32 Modular correspondences, etc.

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Frechette, Sharon M. Hecke structure of spaces of half-integral weight cusp forms. (English summary) **2001h:11056**
Johansson, Stefan *see* **Bolte, Jens, 2001b:11041**
Khare, Chandrashekhar A local analysis of congruences in the (p,p) case. II. **2001m:11067**

11F33 Congruences for modular and p-adic modular forms [see also 14G20, 22E50]

Buzzard, Kevin On level-lowering for mod 2 representations. (English summary) **2001a:11080**
Hida, Haruzo ★ Geometric modular forms and elliptic curves. (English summary) **2001j:11022**
Jarvis, Frazer Mazur's principle for totally real fields of odd degree. (English summary) **2001a:11081**
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Wan, Daqing Partial zeta functions of algebraic varieties over finite fields. (English summary) **2001m:14035**

11F37 Forms of half-integer weight; nonholomorphic modular forms

Biró, András Cycle integrals of Maass forms of weight 0 and Fourier coefficients of Maass forms of weight 1/2. **2001g:11062**

Frechette, Sharon M. Hecke structure of spaces of half-integral weight cusp forms. (English summary) **2001h:11056**

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11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [see also 14J20]

Bruinier, Jan Hendrik Borcherds products and Chern classes of Hirzebruch-Zagier divisors. **2001f:11069**

Grundman, H. G. Nonrational Hilbert modular threefolds. (English summary) **2001d:11050**

Hamahata, Yoshinori A note on Hilbert modular threefolds. (English summary) **2001b:11035**

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11F46 Siegel modular groups and their modular and automorphic forms

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11F50 Jacobi forms

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Bayad, Abdelmejid Formes de Jacobi et formule de Weber p-adique. (English and French summaries) [Jacobi forms and p-adic Weber formula] **2001d:11051**
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Lee, Min Ho[1] Mixed Jacobi-like forms. (English summary) **2001e:11048**
Schmidt, Ralf Local newforms with global applications in the Jacobi theory. (English summary) **2001m:11073**
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— Jacobi forms over totally real number fields. (English summary) **2001m:11075**
Yang, Jae Hyun Stable automorphic forms. **2001h:11060**
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— Precious Siegel modular forms of genus two. (English summary) **2001b:11036**
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11F52 Modular forms associated to Drinfel'd modules

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11F55 Other groups and their modular and automorphic forms (several variables)

Chang, Shou-Te (*with* Eie, Minking) An arithmetic property of Fourier coefficients of singular modular forms on the exceptional domain. (English summary) **2001f:11073**
Dutta Gupta, Shamita (*with* She, Xiaotie) On Euler products associated with noncuspidal metaplectic forms. (English summary) **2001e:11049**
Eie, Minking *see* **Chang, Shou-Te, 2001f:11073**
Gross, Benedict H. Algebraic modular forms. (English summary) **2001b:11037**
Kataev, D. S. On some metaplectic Eisenstein series. (Russian. Russian summary) **2001k:11084**
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— Theta series liftings from orthogonal groups to semi-simple groups. (English summary) **2001g:11068**
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Catto, S. (*with* Huntley, J.; Moh, N.; Tepper, D.) Weyl's law with error estimate. (English summary) **2001g:11080**
Ginzburg, David (*with* Jiang, Dihua) A Siegel-Weil identity for G_2 and poles of L-functions. (English summary) **2001j:11028**
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Goldfeld, Dorian (*with* Gunnells, Paul E.) Eisenstein series twisted by modular symbols for the group SL_n. (English summary) **2001m:11081**
Guerzhoy, Pavel A p-adic family of Klingen-Eisenstein series. **2001g:11065**
Gunnells, Paul E. *see* **Goldfeld, Dorian, 2001m:11081**
Hulek, Klaus Igusa's modular form and the classification of Siegel modular threefolds. **2001m:14038**
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Ichino, Atsushi The regularized Siegel-Weil formula. (Japanese) (*see* **2001m:11001**)
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11F60 Hecke-Petersson operators, differential operators (several variables)

Andrianov, Anatolii N. Singular Hecke-Shimura rings and Hecke operators on Siegel modular forms. (Russian. Russian summary) **2001h:11061**
Choie, YoungJu (*with* Kim, Haesuk) Differential operators on Jacobi forms of several variables. (English summary) **2001g:11069**
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11F85 p-adic theory, local fields [see also 14G20, 22E50]

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11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

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11G07 Elliptic curves over local fields [see also 14G20, 14H52]

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11G09 Drinfel'd modules; higher-dimensional motives, etc. [see also 14L05]

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11G10 Abelian varieties of dimension > 1 [see also 14Kxx]

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Quer, Jordi Q-curves and abelian varieties of GL_2-type. **2001j:11040**
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Royer, Emmanuel Facteurs Q-simples de $J_0(N)$ de grande dimension et de grand rang. (English and French summaries) [Q-simple factors of $J_0(N)$ with large dimension and large rank] **2001j:11041**
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11G15 Complex multiplication and moduli of abelian varieties [see also 14K22]

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Borovoi, Mikhail *see* **Blasius, Don, 2001c:11060**
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11G16 Elliptic and modular units [see also 11R27]

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Itoh, Takeshi *see* **Fukuda, Takashi et al., 2001f:11096**
Jarvis, Frazer An elementary proof of a distribution relation on elliptic curves. (English summary) **2001m:11097**
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11G18 Arithmetic aspects of modular and Shimura varieties [see also 14G35]

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Galbraith, Steven D. Rational points on $X_0^+(p)$. (English summary) **2001b:11051**
Gekeler, Ernst-Ulrich Cuspidal divisor class groups of modular curves. (English summary) **2001g:11093**
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Goren, Eyal Z. Hilbert modular varieties in positive characteristic. (English summary) **2001b:14038**
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11G20 Curves over finite and local fields [see also 14H25]

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David, Chantal Characteristic polynomials of abelian varieties over $\mathbf{F}_p$. (English and French summaries) **2001e:14043**
Elkies, Noam D. Linearized algebra and finite groups of Lie type. I. Linear and symplectic groups. **2001a:20082**
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Igusa, Jun-ichi ★ An introduction to the theory of local zeta functions. **2001j:11112**
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11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [see also 14H25]

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11G35 Varieties over global fields [see also 14G25]

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Dwork, Bernard M. Cohomology of singular hypersurfaces. **2001k:11115**
Faltings, Gerd Does there exist an arithmetic Kodaira-Spencer class? (English summary) **2001c:11068**
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Ono, Takashi Shafarevich-Tate set for $y^4 = x^4 - l^2$. **2001i:14034**
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Szamuely, Tamás Sur la théorie des corps de classes pour les variétés sur les corps p-adiques. (English summary) [Class field theory for varieties over p-adic fields] **2001i:11080**
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Yanchevskiĭ, Vyacheslav I. *see* **Guletskiĭ, V. I., 2001f:14043**
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11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [see also 14G10]

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Cassaigne, Julien (*with* Maillot, Vincent) Hauteur des hypersurfaces et fonctions zêta d'Igusa. (French summary) [Height of hypersurfaces and Igusa zeta functions] **2001k:11117**
Chambert-Loir, Antoine (*with* Tschinkel, Yuri) Points of bounded height on equivariant compactifications of vector groups. I. (English summary) **2001j:11053**
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11G55 Polylogarithms and relations with K-theory

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Bloch, Spencer J. ★ Higher regulators, algebraic K-theory, and zeta functions of elliptic curves. (English summary) **2001i:11082**
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11G99 None of the above, but in this section

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11Hxx Geometry of numbers {For applications in coding theory, see 94B75.}

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11H06 Lattices and convex bodies [see also 11P21, 52C05, 52C07]

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11H16 Nonconvex bodies

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11H31 Lattice packing and covering [see also 05B40, 52C15, 52C17]

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Hales, Thomas C. (*with* Sarnak, Peter; Pugh, M. C.) Advances in random matrix theory, zeta functions, and sphere packing. (English summary) **2001k:11121**
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Shioda, Tetsuji A note on $K3$ surfaces and sphere packings. (English summary) **2001h:14048**
Solé, Patrick *see* **Harada, Masaaki et al., 2001c:11074**
Tsfasman, M. A. Lectures on global fields, lattices and codes. **2001k:11129**

11H46 Products of linear forms

Parusnikov, V. I. Klein polyhedra for the fourth extremal cubic form. (Russian. Russian summary) **2001c:11072**

11H50 Minima of forms

Dummigan, Neil (*with* Tiep, Pham Huu) Lower bounds for the minima of certain symplectic and unitary group lattices. (English summary) **2001a:11112**
Martinet, Jacques On successive minima of rings of algebraic integers. (English summary) **2001b:11063**
Raka, Madhu (*with* Rani, Urmila) Second minimum of inhomogeneous indefinite quadratic forms of signature ±2. (English summary) **2001k:11123**
Rani, Urmila *see* **Raka, Madhu, 2001k:11123**
Tiep, Pham Huu *see* **Dummigan, Neil, 2001a:11112**

Items with secondary classifications in 11H50

Bentkus, V. (*with* Götze, Friedrich) Lattice point problems and distribution of values of quadratic forms. (English summary) **2001b:11087**
Bezdek, Károly On a stronger form of Rogers's lemma and the minimum surface area of Voronoi cells in unit ball packings. (English summary) **2001b:52033**
Coulangeon, Renaud Tensor products of Hermitian lattices. **2001a:11064**
Götze, Friedrich *see* **Bentkus, V., 2001b:11087**
Kim, Myung-Hwan[1] (*with* Oh, Byeong-Kweon) Generation of isometries of certain $\mathbb{Z}$-lattices by symmetries. (English summary) **2001f:11107**
Nowak, Werner Georg On ternary cubic forms. (English summary) **2001d:11043**
Oh, Byeong-Kweon *see* **Kim, Myung-Hwan[1], 2001f:11107**
Watanabe, Takao On an analog of Hermite's constant. (English summary) **2001a:11111**

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

Batut, Christian Classification of quintic eutactic forms. (English summary) **2001k:11124**
Bergé, Anne-Marie Symplectic lattices. **2001k:11125**
— Une forme dual-extrême irrationnelle. (English and French summaries) [An irrational dual-extreme form] **2001m:11111**
Blömer, Johannes Closest vectors, successive minima, and dual HKZ-bases of lattices. (English summary) **2001k:11126**
Golubeva, E. P. On Skubenko's theorem on cycles. (Russian. Russian summary) **2001c:11073**
Mitchell, Patrick Three dimensional lattice reduction with an arbitrary norm. (English summary) **2001a:11113**
Pohst, Michael E. On Legendre's equation over number fields. (English summary) **2001f:11106**

Items with secondary classifications in 11H55

Bhargava, Manjul On the Conway-Schneeberger fifteen theorem. (English summary) **2001m:11050**
Borcherds, Richard E. Classification of positive definite lattices. **2001k:11057**
Conway, John H. Universal quadratic forms and the fifteen theorem. (English summary) **2001m:11049**
Coulangeon, Renaud Tensor products of Hermitian lattices. **2001a:11064**
Cremona, John E. Corrigendum: "Reduction of binary cubic and quartic forms" [LMS J. Comput. Math. **2** (1999), 64–94 (electronic); MR 2000f:11040]. (English summary)
Dani, S. G. On values of linear and quadratic forms at integral points. **2001f:11108**
Dempwolff, Ulrich (*with* Guthmann, Andreas) Applications of number theory to ovoids and translation planes. (English summary) **2001h:51004**
Guthmann, Andreas *see* **Dempwolff, Ulrich, 2001h:51004**
Ou, Zhiming M. (*with* Williams, Kenneth S.) Small solutions of $\varphi_1 x_1^2 + \cdots + \varphi_n x_n^2 = 0$. (English summary) **2001b:11024**
Poor, Cris (*with* Yuen, David S.) Linear dependence among Siegel modular forms. (English summary) **2001j:11024**
Starkov, A. N. ★ Динамические системы на однородных пространствах. (Russian. Russian summary) [Dynamical systems on homogeneous spaces] **2001m:37013a**
— ★ Dynamical systems on homogeneous spaces. (English summary) **2001m:37013b**
Williams, Kenneth S. *see* **Ou, Zhiming M., 2001b:11024**
Yuen, David S. *see* **Poor, Cris, 2001j:11024**

11H56 Automorphism groups of lattices

Borcherds, Richard E. Reflection groups of Lorentzian lattices. **2001b:11086**
Kim, Myung-Hwan[1] (*with* Oh, Byeong-Kweon) Generation of isometries of certain $\mathbb{Z}$-lattices by symmetries. (English summary) **2001f:11107**
Oh, Byeong-Kweon *see* **Kim, Myung-Hwan[1], 2001f:11107**

Items with secondary classifications in 11H56

Batut, Christian Classification of quintic eutactic forms. (English summary) **2001k:11124**
Bergé, Anne-Marie Une forme dual-extrême irrationnelle. (English and French summaries) [An irrational dual-extreme form] **2001m:11111**
Elkies, Noam D. Lattices, linear codes, and invariants. I. **2001g:11110**
Keum, Jonghae (*with* Kondō, Shigeyuki) The automorphism groups of Kummer surfaces associated with the product of two elliptic curves. (English summary) **2001k:14075**
Kondō, Shigeyuki *see* **Keum, Jonghae, 2001k:14075**

11H71 Relations with coding theory

Dougherty, Steven T. (*with* Harada, Masaaki; Solé, Patrick) Shadow lattices and shadow codes. (English summary) **2001i:11084**
Ebeling, Wolfgang Lattices and codes. **2001k:11127**
Elkies, Noam D. Lattices, linear codes, and invariants. I. **2001g:11110**
— Lattices, linear codes, and invariants. II. **2001k:11128**
Gaborit, Philippe *see* **Harada, Masaaki et al., 2001c:11074**
Harada, Masaaki (*with* Solé, Patrick; Gaborit, Philippe) Self-dual codes over Z_4 and unimodular lattices: a survey. (English summary) **2001c:11074**
— *see also* **Dougherty, Steven T. et al., 2001i:11084**
Solé, Patrick *see* **Harada, Masaaki et al., 2001c:11074** *and* **Dougherty, Steven T. et al., 2001i:11084**
Tsfasman, M. A. Lectures on global fields, lattices and codes. **2001k:11129**

Items with secondary classifications in 11H71

Bachoc, Christine (*with* Gulliver, T. Aaron; Harada, Masaaki) Isodual codes over Z_{2k} and isodual lattices. (English summary) **2001j:94052**
van Dam, Edwin R. *see* **De Caen, Dominique, 2001c:05145**
De Caen, Dominique (*with* van Dam, Edwin R.) Association schemes related to Kasami codes and Kerdock sets. (English summary) **2001c:05145**
Duursma, Iwan M. Preparata codes through lattices. (English summary) **2001m:94062**
Gulliver, T. Aaron *see* **Bachoc, Christine et al., 2001j:94052**
Harada, Masaaki *see* **Bachoc, Christine et al., 2001j:94052**
Langevin, Philippe (*with* Solé, Patrick) Duadic Z_4-codes. (English summary) **2001j:94055**
Solé, Patrick *see* **Langevin, Philippe, 2001j:94055**

11H99 None of the above, but in this section

Items with secondary classifications in 11H99

Akkuratova, S. V. *see* **Dobrovol'skiĭ, N. M. et al., 2001e:65037**
Dobrovol'skiĭ, N. M. (*with* Manokhin, E. V.; Rebrova, I. Yu.; Akkuratova, S. V.) On some properties of normed spaces and normed algebras of lattices. (Russian. English and Russian summaries) **2001e:65037**
Emiris, Ioannis Z. Computing integer points in Minkowski sums. (English summary) **2001j:11057**
Manokhin, E. V. *see* **Dobrovol'skiĭ, N. M. et al., 2001e:65037**
Moshchevitin, Nikolai G. Continued fractions and almost arithmetic progressions. (Russian) **2001k:11015**
Rebrova, I. Yu. *see* **Dobrovol'skiĭ, N. M. et al., 2001e:65037**

11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

Baker, Alan (*with* Wüstholz, G.) Number theory, transcendence and Diophantine geometry in the next millennium. **2001a:11114**
Dani, S. G. On values of linear and quadratic forms at integral points. **2001f:11108**
Waldschmidt, Michel ★ Diophantine approximation on linear algebraic groups. **2001c:11075**
— Un demi-siècle de transcendance. [A half-century of transcendence] **2001k:11130**
Wüstholz, G. *see* **Baker, Alan, 2001a:11114**

11J04 Homogeneous approximation to one number

Bugeaud, Yann On the approximation by algebraic numbers with bounded degree. (English summary) **2001e:11075**
— (*with* Teulié, Olivier) Approximation d'un nombre réel par des nombres algébriques de degré donné. [Approximation of a real number by algebraic numbers of a given degree] **2001g:11111**
Burger, Edward B. (*with* Todd, Jonathan M.) On Diophantine approximation below the Lagrange constant. **2001e:11076**
Elsner, Carsten On Diophantine approximations with rationals restricted by arithmetical conditions. **2001c:11076**
Kalantari, Bahman New formulas for approximation of π and other transcendental numbers. (English summary) **2001h:11087**
Sarana, A. A. Some nonstandard problems associated with the nature of irrational numbers. (Ukrainian) **2001c:11077**
Teulié, Olivier *see* **Bugeaud, Yann, 2001g:11111**
Tishchenko, K. I. On approximation to real numbers by algebraic numbers. **2001f:11109**
Todd, Jonathan M. *see* **Burger, Edward B., 2001e:11076**

Items with secondary classifications in 11J04

Brisebarre, Nicolas Irrationality measures of $\log 2$ and $\pi/\sqrt{3}$. (English summary) **2001m:11119**
Naito, Koichiro Correlation dimensions of quasi-periodic trajectories for evolution equations. (*see* **2001d:00047**)

11J06 Markov and Lagrange spectra and generalizations

Items with secondary classifications in 11J06

Burger, Edward B. (*with* Todd, Jonathan M.) On Diophantine approximation below the Lagrange constant. **2001e:11076**
Todd, Jonathan M. *see* **Burger, Edward B., 2001e:11076**

11J13 Simultaneous homogeneous approximation, linear forms

Beresnevich, V. V. (*with* Bernik, V. I.) A. Baker's conjecture and Hausdorff dimension. (English summary) **2001j:11058**
Bernik, V. I. *see* **Beresnevich, V. V., 2001j:11058**
Bundschuh, Peter (*with* Väänänen, Keijo) On the simultaneous Diophantine approximation of new products. (English summary) **2001i:11085**
Burger, Edward B. On simultaneous Diophantine approximation in the vector space $\mathbf{Q} + \mathbf{Q}\alpha$. (English summary) **2001a:11115**
Evertse, Jan-Hendrik Symmetric improvements of Liouville's inequality. (English summary) **2001k:11131**
Ferretti, Roberto G. Mumford's degree of contact and Diophantine approximations. (English summary) **2001f:11110**
Marklof, Jens The n-point correlations between values of a linear form. (English summary) **2001m:11112**
Moshchevitin, Nikolai G. Best simultaneous approximations: norms, signatures, and asymptotic directions. (Russian. Russian summary) **2001m:11113**
Nowak, Werner Georg Diophantine approximation in $\mathbf{R}^2$: on a method of Mordell and Armitage. (English summary) **2001j:11059**
Philippon, Patrice Addendum à quelques remarques sur des questions d'approximation Diophantienne. (French) [Addenda: "Some remarks concerning Diophantine approximations" (French) [Bull. Austral. Math. Soc. **59** (1999), no. 2, 323–334; MR 2000m:11057]]
Roy, Damien Approximation algébrique simultanée de nombres de Liouville. (English summary) [Simultaneous algebraic approximation of Liouville numbers] **2001j:11060**
Ru, Min (*with* Wang, Julie Tzu-Yueh) Diophantine approximation with algebraic points of bounded degree. (English summary) **2001f:11111**
(Rudnick, Zeév) *see* **Marklof, Jens, 2001m:11112**
Väänänen, Keijo *see* **Bundschuh, Peter, 2001i:11085**
Wang, Julie Tzu-Yueh *see* **Ru, Min, 2001f:11111**

Items with secondary classifications in 11J13

Bernik, V. I. (*with* Kovalevskaya, È. I.) The distribution of rational points close to a smooth manifold and Hausdorff dimension. (English summary) **2001m:11125**
Chevallier, Nicolas Meilleures approximations diophantiennes d'un élément du tore $\mathbb{T}^d$. [Best Diophantine approximations of an element of the torus $\mathbb{T}^d$] **2001m:11114**
Dickinson, Henrietta *see* **Rynne, Bryan P., 2001g:11129**
Ivankov, P. L. On the calculation of the constants involved in the estimation of linear forms. (Russian) **2001e:11084**
Khessami Pilerud, T. G. A lower bound for a linear form. (Russian. Russian summary) **2001e:11080**
Kovalevskaya, È. I. *see* **Bernik, V. I., 2001m:11125**
Michel, Philippe (*with* Schneider, Jacques) Approximation simultanée de réels par des nombres rationnels et noyau de collision de l'équation de Boltzmann. (English and French summaries) [Simultaneous approximation of real numbers by rational numbers and collision kernel of the Boltzmann equation] **2001g:82092**
Moshchevitina, L. A. On lattice points in polygons. (Russian) **2001c:11107**
Rynne, Bryan P. (*with* Dickinson, Henrietta) Hausdorff dimension and a generalized form of simultaneous Diophantine approximation. **2001g:11129**
Schneider, Jacques *see* **Michel, Philippe, 2001g:82092**

11J17 Approximation by numbers from a fixed field

Items with secondary classifications in 11J17

Bernik, V. I. (*with* Kovalevskaya, È. I.) The distribution of rational points close to a smooth manifold and Hausdorff dimension. (English summary) **2001m:11125**
Bundschuh, Peter (*with* Väänänen, Keijo) On the simultaneous Diophantine approximation of new products. (English summary) **2001i:11085**
Dickinson, Henrietta (*with* Dodson, M. M.; Yuan, Jin[1]) Hausdorff dimension and p-adic Diophantine approximation. **2001m:11132**
Dodson, M. M. *see* **Dickinson, Henrietta et al., 2001m:11132**
van Frankenhuysen, Machiel The ABC conjecture implies Roth's theorem and Mordell's conjecture. (English summary) **2001i:11087**
Gilbert, Anthony D. (*with* Smyth, C. J.) Zero-mean cosine polynomials which are non-negative for as long as possible. (English summary) **2001j:42002**
Kovalevskaya, È. I. *see* **Bernik, V. I., 2001m:11125**
Smyth, C. J. *see* **Gilbert, Anthony D., 2001j:42002**
Väänänen, Keijo *see* **Bundschuh, Peter, 2001i:11085**
Yuan, Jin[1] *see* **Dickinson, Henrietta et al., 2001m:11132**

11J20 Inhomogeneous linear forms

Chen, Yong-Gao The best quantitative Kronecker's theorem. (English summary) **2001i:11086**
Kleinbock, Dmitry Badly approximable systems of affine forms. (English summary) **2001b:11064**
Komatsu, Takao[2] On inhomogeneous Diophantine approximation and the NST-algorithm. (English summary) **2001e:11077**
— On inhomogeneous Diophantine approximation and the Borweins' algorithm. (Japanese. English summary) (*see* **2001f:11003**)

Items with secondary classifications in 11J20

Dickinson, Henrietta (*with* Dodson, M. M.) Extremal manifolds and Hausdorff dimension. **2001f:11116**
Dodson, M. M. *see* **Dickinson, Henrietta, 2001f:11116**
Komatsu, Takao[2] On inhomogeneous Diophantine approximation with some quasi-periodic expressions. II. (English and French summaries) **2001e:11079**

11J25 Diophantine inequalities [see also 11D75]

Amoroso, Francesco (*with* David, Sinnou) Le problème de Lehmer en dimension supérieure. (English summary) [The Lehmer problem in higher dimension] **2001a:11116**
David, Sinnou *see* **Amoroso, Francesco, 2001a:11116**
van Frankenhuysen, Machiel The ABC conjecture implies Roth's theorem and Mordell's conjecture. (English summary) **2001i:11087**
Huxley, M. N. The rational points close to a curve. II. **2001k:11132**

Items with secondary classifications in 11J25

Bean, Michael A. (*with* Laugesen, Richard Snyder) Binary forms, equiangular polygons and harmonic measure. (English summary) **2001i:11039**
Brüdern, Jörg The Davenport-Heilbronn Fourier transform method, and some Diophantine inequalities. (English summary) **2001b:11026**
— Small values of diagonal cubic forms. (English summary) **2001g:11049**
Bugeaud, Yann Lower bounds for the greatest prime factor of $ax^m + by^n$. (English summary) **2001m:11041**
— (*with* Hajdu, Lajos) Lower bounds for the difference $ax^n - by^m$. (English summary) **2001i:11034**
Freeman, D. Eric On positive definite quadratic forms. (English summary) **2001k:11051**
— One cubic Diophantine inequality. **2001c:11043**
Hajdu, Lajos *see* **Bugeaud, Yann, 2001i:11034**
Kumchev, A. Diophantine approximation by cubes of primes and an almost prime. (English summary) **2001k:11052**
Laugesen, Richard Snyder *see* **Bean, Michael A., 2001i:11039**
Litow, B. On Hadamard square roots of unity. **2001c:30003**
Philippon, Patrice Addendum à quelques remarques sur des questions d'approximation Diophantienne. (French) [Addenda: "Some remarks concerning Diophantine approximations" (French) [Bull. Austral. Math. Soc. **59** (1999), no. 2, 323–334; MR 2000m:11057]]
Ru, Min (*with* Wang, Julie Tzu-Yueh) Diophantine approximation with algebraic points of bounded degree. (English summary) **2001f:11111**
Vojta, Paul On the ABC conjecture and Diophantine approximation by rational points. (English summary) **2001i:11094**
Wang, Julie Tzu-Yueh *see* **Ru, Min, 2001f:11111**

11J54 Small fractional parts of polynomials and generalizations

Borwein, Peter B. (*with* Choi, Kwok-Kwong Stephen; Yazdani, Soroosh) An extremal property of Fekete polynomials. (English summary) **2001j:11061**
Choi, Kwok-Kwong Stephen *see* **Borwein, Peter B. et al., 2001j:11061**
Huxley, M. N. The integer points close to a curve. III. **2001a:11117**
Yazdani, Soroosh *see* **Borwein, Peter B. et al., 2001j:11061**

Items with secondary classifications in 11J54

Beresnevich, V. V. (*with* Bernik, V. I.) A. Baker's conjecture and Hausdorff dimension. (English summary) **2001j:11058**
Bernik, V. I. *see* **Beresnevich, V. V., 2001j:11058**
Boca, Florin P. (*with* Cobeli, Cristian; Zaharescu, Alexandru) Distribution of lattice points visible from the origin. (English summary) **2001j:11094**
— (*with* Zaharescu, Alexandru) Pair correlation of values of rational functions (mod p). **2001j:11065**
Cobeli, Cristian *see* **Boca, Florin P. et al., 2001j:11094**
Konyagin, Sergei V. Estimates of the least prime factor of a binomial coefficient. (English summary) **2001h:11125**
Zaharescu, Alexandru *see* **Boca, Florin P. et al., 2001j:11065** *and* **2001j:11094**

11J61 Approximation in non-Archimedean valuations

Bianconi, Ricardo Some remarks on Schanuel's conjecture. (English summary) **2001k:11133**
Caulk, Stephen (*with* Schmidt, Wolfgang M.) Simultaneous approximation in positive characteristic. (English summary) **2001j:11062**
Kim, Minhyong (*with* Thakur, Dinesh S.; Voloch, José Felipe) Diophantine approximation and deformation. (English and French summaries) **2001k:11134**
Lasjaunias, Alain Quartic power series in $\mathbf{F}_3(\!(T^{-1})\!)$ with bounded partial quotients. **2001g:11112**
Schmidt, Wolfgang M. On continued fractions and Diophantine approximation in power series fields. **2001j:11063**
— *see also* **Caulk, Stephen, 2001j:11062**
Thakur, Dinesh S. *see* **Kim, Minhyong et al., 2001k:11134**
Voloch, José Felipe *see* **Kim, Minhyong et al., 2001k:11134**

Items with secondary classifications in 11J61

Bernik, V. I. (*with* Trelina, L. A.) Regular systems of algebraic numbers in the field of p-adic numbers. (Russian. English and Russian summaries) **2001m:11124**
Chirskiĭ, V. G. On the arithmetic properties of the values of some functions. (Russian. English and Russian summaries) **2001k:11143**
Dickinson, Henrietta (*with* Dodson, M. M.; Yuan, Jin[1]) Hausdorff dimension and p-adic Diophantine approximation. **2001m:11132**
Dodson, M. M. *see* **Dickinson, Henrietta et al., 2001m:11132**
Kovalevskaya, È. I. A metric theorem on the exact order of approximation of zero by values of integer polynomials in $\mathbf{Q}_p$. (Russian. English and Russian summaries) **2001a:11128**
Matala-Aho, Tapani (*with* Väänänen, Keijo) On Diophantine approximations of mock theta functions of third order. (English summary) **2001b:11068**
Trelina, L. A. *see* **Bernik, V. I., 2001m:11124**
Väänänen, Keijo *see* **Matala-Aho, Tapani, 2001b:11068**
Yılmaz, Gülşen Arithmetical properties of the values of some power series with algebraic coefficients taken for U_m-numbers arguments. (English summary) **2001d:11077**
Yuan, Jin[1] *see* **Dickinson, Henrietta et al., 2001m:11132**

11J68 Approximation to algebraic numbers

Bugeaud, Yann Approximation par des nombres algébriques. (English summary) [Approximation by algebraic numbers] **2001g:11113**
Evertse, Jan-Hendrik Symmetric improvements of Liouville's inequality: a survey. (English summary) **2001e:11078**

Items with secondary classifications in 11J68

Bugeaud, Yann (*with* Teulié, Olivier) Approximation d'un nombre réel par des nombres algébriques de degré donné. [Approximation of a real number by algebraic numbers of a given degree] **2001g:11111**
Evertse, Jan-Hendrik Symmetric improvements of Liouville's inequality. (English summary) **2001k:11131**
Kim, Minhyong (*with* Thakur, Dinesh S.; Voloch, José Felipe) Diophantine approximation and deformation. (English and French summaries) **2001k:11134**
Teulié, Olivier *see* **Bugeaud, Yann, 2001g:11111**
Thakur, Dinesh S. *see* **Kim, Minhyong et al., 2001k:11134**
Tishchenko, K. I. On approximation to real numbers by algebraic numbers. **2001f:11109**
Voloch, José Felipe *see* **Kim, Minhyong et al., 2001k:11134**

11J70 Continued fractions and generalizations [see also 11A55, 11K50]

Burger, Edward B. (*with* van der Poorten, Alfred J.) On periods of elements from real quadratic number fields. **2001f:11112**
— Diophantine Olympics and world champions: polynomials and primes down under. **2001h:11088**
Chevallier, Nicolas Meilleures approximations diophantiennes d'un élément du tore $\mathbb{T}^d$. [Best Diophantine approximations of an element of the torus $\mathbb{T}^d$] **2001m:11114**
Duverney, Daniel (*with* Shiokawa, Iekata) On some arithmetical properties of Rogers-Ramanujan continued fraction. **2001c:11078**
Golubeva, E. P. The spectrum of Lévy constants for quadratic irrationalities. (Russian. Russian summary) **2001b:11065**
Komatsu, Takao[2] On inhomogeneous Diophantine approximation with some quasi-periodic expressions. II. (English and French summaries) **2001e:11079**
— Continued fractions and Newton's approximations. (English summary) **2001a:11118**
Lasjaunias, Alain A survey of Diophantine approximation in fields of power series. (English summary) **2001k:11135**
Lee, Min-Young On the Daróczy-Kátai-birthday expansion. (English summary) **2001m:11115**
Lubinsky, D. S. The size of $(q;q)_n$ for q on the unit circle. (English summary) **2001f:11113**
Meignen, P. The Lagrange theorem for multidimensional Diophantine approximation. (English summary) **2001a:11119**
Moshchevitin, Nikolai G. Continued fractions, multidimensional Diophantine approximations and applications. (English and French summaries) **2001c:11079**
Petruska, G. *see* **Ridley, J. N., 2001k:11136**
Pisarev, P. A. On the set of numbers representable as continued fractions with bounded incomplete quotients. (Russian) **2001j:11064**
van der Poorten, Alfred J. *see* **Burger, Edward B., 2001f:11112**
Prasad, Arjun *see* **Prasad, K. C.**
Prasad, K. C. (*with* Prasad, Arjun) Location of approximations of fourth Markoff theorem. (English summary)
Ridley, J. N. (*with* Petruska, G.) The error-sum function of continued fractions. (English summary) **2001k:11136**
Schoißengeier, J. Another proof of a theorem of J. Beck. (English summary) **2001a:11120**
Shiokawa, Iekata *see* **Duverney, Daniel, 2001c:11078**
Wang, En Quan Some relation between recurring continued fractions and quadratic irrationalities. (Chinese. English and Chinese summaries)

Items with secondary classifications in 11J70

Allouche, Jean-Paul Nouveaux résultats de transcendance de réels à développement non aléatoire. [New results on the transcendence of real numbers with nonrandom expansion] **2001d:11080**
Berthé, Valérie (*with* Nakada, Hitoshi) On continued fraction expansions in positive characteristic: equivalence relations and some metric properties. (English summary) **2001h:11099**
Bowman, Douglas (*with* Choi, Geumlan) Rational approximation to a new generalization of the Rogers-Ramanujan continued fraction. **2001k:11139**
Choi, Geumlan *see* **Bowman, Douglas, 2001k:11139**
Ebner, Carsten On Diophantine approximations with rationals restricted by arithmetical conditions. **2001c:11076**
Komatsu, Takao[2] On inhomogeneous Diophantine approximation and the NST-algorithm. (English summary) **2001e:11077**
Lasjaunias, Alain Quartic power series in $\mathbf{F}_3(\!(T^{-1})\!)$ with bounded partial quotients. **2001g:11112**
Lee, Eileen F. The structure and topology of the Brjuno numbers. (English summary) **2001k:37071**
Nakada, Hitoshi *see* **Berthé, Valérie, 2001h:11099**
Parusnikov, V. I. Klein polyhedra for the fourth extremal cubic form. (Russian. Russian summary) **2001c:11072**
Pinner, Christopher G. On the one-sided boundedness of sums of fractional parts $(\{n\alpha + \gamma\} - \frac{1}{2})$. (English summary) **2001a:11133**
Queffélec, Martine Irrational numbers with automaton-generated continued fraction expansion. (English summary) **2001h:11008**
Schmidt, Wolfgang M. On continued fractions and Diophantine approximation in power series fields. **2001j:11063**
Schratzberger, B. R. The exponent of convergence for Brun's algorithm in two dimensions. (English summary) **2001c:11085**
Tamura, Jun-Ichi Padé approximation for words generated by certain substitutions, and Hankel determinants. (English summary) **2001e:11022**
Tasoev, B. G. On rational approximations of some numbers. (Russian. Russian summary) **2001m:11121**
Wallisser, Rolf On Lambert's proof of the irrationality of π. (English summary) **2001h:01022**

11J71 Distribution modulo one [see also 11K06]

Boca, Florin P. (*with* Zaharescu, Alexandru) Pair correlation of values of rational functions (mod p). **2001j:11065**
Bodnarashik, O. S. (*with* Sarana, A. A.) On the distribution of certain sets of irrational numbers on the segment [0; 1]. (Ukrainian) **2001f:11114**
Cao, Xiao Dong[1] (*with* Zhai, Wenguang) On the distribution of p^n modulo one. (English and French summaries) **2001a:11121**
Jia, Chaohua On the distribution of αp modulo one. II. (English summary) **2001k:11137**
Sarana, A. A. *see* **Bodnarashik, O. S., 2001f:11114**
Zaharescu, Alexandru *see* **Boca, Florin P., 2001j:11065**
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Nillsen, Rodney Normal numbers without measure theory. **2001i:11096**
Rittaud, Benoît Équidistribution presque partout modulo 1 de suites oscillantes perturbées. (English and French summaries) [Uniform distribution almost everywhere modulo 1 of oscillating sequences] **2001i:11099**
Schoißengeier, J. Another proof of a theorem of J. Beck. (English summary) **2001a:11120**
Vaughan, R. C. (*with* Wooley, Trevor D.) Further improvements in Waring's problem. IV. Higher powers. **2001g:11154**
Wooley, Trevor D. *see* **Vaughan, R. C., 2001g:11154**

11J72 Irrationality; linear independence over a field

Amou, Masaaki Irrationality results for values of certain q-functions. **2001m:11116**
Borwein, Peter B. (*with* Zhou, Ping[2]) On the irrationality of $\sum_{i=0}^{\infty} q^{-i} \prod_{j=0}^{i}(1 + q^{-j_r} + q^{-2j_s})$. (English summary) **2001g:11114**
Khessami Pilerud, T. G. On the linear independence of vectors with polylogarithmic coordinates. (Russian) **2001d:11075**
Nopper, Thomas Ganze Funktionen mit arithmetischen Bedingungen und Irrationalitätsbeweise. (English summary) [Entire functions with arithmetic conditions and proofs of irrationality] **2001h:11089**
Nyblom, M. A. On irrational valued series involving generalized Fibonacci numbers. **2001a:11122**
Oleinikov, V. A. Irrationality and irreducibility [Kvant **1986**, no. 10, 6–10]. (*see* **2001b:00011**)
— Irreducibility and irrationality [Kvant **1986**, no. 11, 12–16]. (*see* **2001b:00011**)
Rivoal, Tanguy La fonction zêta de Riemann prend une infinité de valeurs irrationnelles aux entiers impairs. (English and French summaries) [There are infinitely many irrational values of the Riemann zeta function at odd integers] **2001k:11138**
Sándor, József On the irrationality of certain constants related to the Smarandache function. (*see* **2001d:11004**)
Zhou, Ping[2] *see* **Borwein, Peter B., 2001g:11114**

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Choi, Geumlan *see* **Bowman, Douglas, 2001k:11139**
Duverney, Daniel (*with* Shiokawa, Iekata) On some arithmetical properties of Rogers-Ramanujan continued fraction. **2001c:11078**
Freeman, D. Eric One cubic Diophantine inequality. **2001c:11043**
Galochkin, A. I. On global and nonglobal relations between the values of E-functions. (Russian. Russian summary) **2001f:11119**
Hata, Masayoshi Irrationality measures for π and other mysterious numbers. **2001i:11091**
Ivankov, P. L. On the calculation of the constants involved in the estimation of linear forms. (Russian) **2001e:11084**
Khessami Pilerud, T. G. A lower bound for a linear form. (Russian. Russian summary) **2001e:11080**
Masseron, Jean-Christophe Propriétés arithmétiques de fractions rationnelles à coefficients algébriques. [Arithmetical properties of rational fractions with algebraic coefficients] **2001e:11024**
Matala-Aho, Tapani (*with* Väänänen, Keijo) On Diophantine approximations of mock theta functions of third order. (English summary) **2001b:11068**
Shiokawa, Iekata *see* **Duverney, Daniel, 2001c:11078**
Väänänen, Keijo *see* **Matala-Aho, Tapani, 2001b:11068**
Wallisser, Rolf On Lambert's proof of the irrationality of π. (English summary) **2001h:01022**

11J81 Transcendence (general theory)

André, Yves[1] Séries Gevrey de type arithmétique. I. Théorèmes de pureté et de dualité. [Gevrey series of arithmetic type. I. Purity and duality theorems] **2001m:11117**
— Séries Gevrey de type arithmétique. II. Transcendance sans transcendance. [Gevrey series of arithmetic type. II. Transcendence without transcendence] **2001m:11118**
Fel'dman, Naum Il'ich Algebraic and transcendental numbers. **2001c:11080**
Galochkin, A. I. On proofs of the Lindemann theorem and the Gel'fond-Schneider theorem. (Russian. English and Russian summaries) **2001i:11088**
Laurent, Michel Interpolation determinants of exponential polynomials. **2001f:11115**
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Nyblom, M. A. A theorem on transcendence of infinite series. (English summary) **2001g:11115**

Panzone, Pablo A. A remark on Euler's constant. (English summary) **2001d:11076**
Welter, Michael On entire functions whose derivatives are integer-valued on geometric progressions. (English summary) **2001i:11090**
Zhu, Yao Chen A transcendence theorem and its applications. (Chinese. Chinese summary) **2001j:11066**

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Amoroso, Francesco (*with* David, Sinnou) Minoration de la hauteur normalisée des hypersurfaces. [Lower bound for the normalized height of hypersurfaces] **2001f:11102**
— Some metric results in transcendental numbers theory.
Amou, Masaaki On the proof of Mahler-Manin conjecture. (English summary) **2001h:11094**
David, Sinnou *see* **Amoroso, Francesco, 2001f:11102**
Duverney, Daniel (*with* Shiokawa, Iekata) On some arithmetical properties of Rogers-Ramanujan continued fraction. **2001c:11078**
Groote, S. (*with* Körner, J. G.; Pivovarov, A. A.) Transcendental numbers and the topology of three-loop bubbles. (English summary) **2001a:81157**
Körner, J. G. *see* **Groote, S. et al., 2001a:81157**
Pivovarov, A. A. *see* **Groote, S. et al., 2001a:81157**
Queffélec, Martine Irrational numbers with automaton-generated continued fraction expansion. (English summary) **2001h:11008**
Saradha, N. Transcendence measure for η/ω. **2001a:11125**
Schanuel, Stephen H. Transcendence in objective number theory. (*see* **2001d:00028**)
Shiokawa, Iekata Application of Nesterenko's theorem on modular functions to transcendency of certain numbers. (English summary) **2001f:11120**
— *see also* **Duverney, Daniel, 2001c:11078**
Tanaka, Taka-aki Algebraic independence results related to linear recurrences. **2001k:11141**
Waldschmidt, Michel Les débuts de la théorie des nombres transcendants. (English and French summaries) [The origins of transcendental number theory] **2001d:11003**
Yılmaz, Gülşen Arithmetical properties of the values of some power series with algebraic coefficients taken for U_m-numbers arguments. (English summary) **2001d:11077**

11J82 Measures of irrationality and of transcendence

Aleksentsev, Yu. M. On the measure of approximation of π by algebraic numbers. (Russian. Russian summary) **2001b:11066**
Bowman, Douglas (*with* Choi, Geumlan) Rational approximation to a new generalization of the Rogers-Ramanujan continued fraction. **2001k:11139**
Brisebarre, Nicolas Irrationality measures of $\log 2$ and $\pi/\sqrt{3}$. (English summary) **2001m:11119**
Choi, Geumlan *see* **Bowman, Douglas, 2001k:11139**
Galochkin, A. I. Lower bounds for polynomials on values of algebraically dependent E-functions. (Russian. English and Russian summaries) **2001g:11116**
Hata, Masayoshi Irrationality measures for π and other mysterious numbers. **2001i:11091**
— A new irrationality measure for $\zeta(3)$. **2001a:11123**
— C^2-saddle method and Beukers' integral. (English summary) **2001b:11067**
Khessami Pilerud, T. G. A lower bound for a linear form. (Russian. Russian summary) **2001e:11080**
Matala-Aho, Tapani (*with* Väänänen, Keijo) On Diophantine approximations of mock theta functions of third order. (English summary) **2001b:11068**
Philippon, Patrice Approximation properties of points in projective spaces. **2001a:11124**
— Approximations algébriques des points dans les espaces projectifs. I. (English summary) [Algebraic approximations of points in projective spaces. I] **2001h:11090**
Roy, Damien An arithmetic criterion for the values of the exponential function. **2001m:11120**
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Tasoev, B. G. On rational approximations of some numbers. (Russian. Russian summary) **2001m:11121**
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— On a problem of Mahler concerning the approximation of exponentials and logarithms. (English summary) **2001e:11081**
Zhu, Yao Chen A note of irrationality measure of Mahler's transcendental fractions. (Chinese. English and Chinese summaries) **2001m:11122**

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Beukers, Frits A rational approach to π. (English summary) **2001k:11266**
Bundschuh, Peter (*with* Väänänen, Keijo) On the simultaneous Diophantine approximation of new products. (English summary) **2001i:11085**
Galochkin, A. I. Estimates, sharp with respect to height, for simultaneous approximations of some linear forms. (Russian. Russian summary) **2001i:11093**
Ivankov, P. L. On the calculation of the constants involved in the estimation of linear forms. (Russian) **2001e:11084**
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Väänänen, Keijo *see* **Bundschuh, Peter, 2001i:11085**

11J83 Metric theory

Amoroso, Francesco Some metric results in transcendental numbers theory.
Beresnevich, V. V. Best order of approximation of points of smooth curves in a three-dimensional Euclidean space. (Russian. English and Russian summaries) **2001a:11126**
— (*with* Bernik, V. I.; Dickinson, Henrietta; Dodson, M. M.) The Khintchine-Groshev theorem for planar curves. (English summary) **2001j:11069**
— An analogue of the Khinchin-Groshev theorem for curves in $\mathbf{R}^n$. (Russian. English and Russian summaries) **2001m:11123**
— Application of the concept of regular systems of points in metric number theory. (Russian. English and Russian summaries) **2001e:11082**
— (*with* Bernik, V. I.; Dickinson, Henrietta; Dodson, M. M.) On linear manifolds for which the Khinchin approximation theorem holds. (Belorussian. English and Russian summaries) **2001j:11068**
Bernik, V. I. (*with* Kovalevskaya, È. I.) The distribution of rational points close to a smooth manifold and Hausdorff dimension. (English summary) **2001m:11125**
— (*with* Dodson, M. M.) ★ Metric Diophantine approximation on manifolds. (English summary) **2001h:11091**
— (*with* Dodson, M. M.) Metric theory of Diophantine approximation in the field of complex numbers. (English summary) **2001a:11127**
— On the exact order of approximation of plane points by points with algebraic coordinates. (Russian. English and Russian summaries) **2001k:11140**
— (*with* Trelina, L. A.) Regular systems of algebraic numbers in the field of p-adic numbers. (Russian. English and Russian summaries) **2001m:11124**
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Dickinson, Henrietta (*with* Dodson, M. M.) Extremal manifolds and Hausdorff dimension. **2001f:11116**
— *see also* **Beresnevich, V. V. et al., 2001j:11068** *and* **2001j:11069**
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Kovalevskaya, È. I. A metric theorem on the exact order of approximation of zero by values of integer polynomials in $\mathbf{Q}_p$. (Russian. English and Russian summaries) **2001a:11128**
— Simultaneous approximations of real numbers by algebraic numbers of a given type. (Russian. English and Russian summaries) **2001a:11129**
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Vasil'ev, D. V. On an analogue of Schmidt's theorem for curves in the space $\mathbf{C}^3$. (Russian. English and Russian summaries) **2001g:11117**

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Beresnevich, V. V. (*with* Bernik, V. I.) A. Baker's conjecture and Hausdorff dimension. (English summary) **2001j:11058**
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Boca, Florin P. (*with* Zaharescu, Alexandru) Pair correlation of values of rational functions (mod p). **2001j:11065**
Chevallier, Nicolas Meilleures approximations diophantiennes d'un élément du tore $\mathbb{T}^d$. [Best Diophantine approximations of an element of the torus $\mathbb{T}^d$] **2001m:11114**
Harman, Glyn Variants of the second Borel-Cantelli lemma and their applications in metric number theory. **2001h:11103**
Zaharescu, Alexandru *see* **Boca, Florin P., 2001j:11065**

11J85 Algebraic independence; Gel'fond's method

Amou, Masaaki On algebraic independence of certain functions related to the elliptic modular function. (English summary) **2001a:11130**
Brownawell, W. Dale The Hilbert Nullstellensatz, inequalities for polynomials, and algebraic independence.
Chen, Yong-Gao (*with* Zhu, Yao Chen) Algebraic independence of certain numbers. (English summary) **2001h:11092**
Gorelov, V. A. On the algebraic independence of the values of E-functions at singular points and Siegel's conjecture. (Russian. Russian summary) **2001f:11117**
Greuel, Bernd Algebraic independence of Mahler functions. (English summary) **2001f:11118**
Laurent, Michel Algebraic independence in algebraic groups. I. Small transcendence degrees.
Nesterenko, Yu. V. Algebraic independence for values of Ramanujan functions.
Nishioka, Kumiko A vanishing theorem for Mahler functions. (*see* **2001f:11003**)
— Measures of algebraic independence for Mahler functions.
Philippon, Patrice Some remarks on proofs of algebraic independence.
— Criteria for algebraic independence.
Tanaka, Taka-aki Algebraic independence results related to linear recurrences. **2001k:11141**
Toshimitsu, Takeshi q-additive functions and algebraic independence. **2001m:11126**
Waldschmidt, Michel Algebraic independence of transcendental numbers: a survey. (English summary) **2001g:11118**
— Algebraic independence in algebraic groups. II. Large transcendence degrees.
Zhu, Yao Chen Algebraic independence by approximation method. II. (English summary) **2001h:11093**
— Algebraic independence by approximation method. II. (Chinese. English and Chinese summaries)
— *see also* **Chen, Yong-Gao, 2001h:11092**

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Denis, Laurent Indépendance algébrique des dérivées d'une période du module de Carlitz. (English summary) [Algebraic independence of the derivatives of a period of the Carlitz module] **2001f:11121**
Diaz, Guy Transcendance et indépendance algébrique: liens entre les points de vue elliptique et modulaire. (English summary) [Transcendence and algebraic independence: connections between the elliptic and modular points of view] **2001g:11120**
Galochkin, A. I. On proofs of the Lindemann theorem and the Gel'fond-Schneider theorem. (Russian. English and Russian summaries) **2001i:11088**
Gorelov, V. A. Algebraic independence of the values of E-functions associated with arbitrary algebraic equations over $\mathbf{C}(z)$. (Russian. English and Russian summaries)

2001h:11095

Greuel, Bernd Algebraic independence of the values of Mahler functions satisfying implicit functional equations. **2001g:11121**

Philippon, Patrice Approximations algébriques des points dans les espaces projectifs. I. (English summary) [Algebraic approximations of points in projective spaces. I] **2001h:11090**

Roy, Damien An arithmetic criterion for the values of the exponential function. **2001m:11120**

Shidlovskiĭ, A. B. On the arithmetic properties of values of E-functions. (Russian. Russian summary) **2001a:11131**

Waldschmidt, Michel Conjectures for large transcendence degree. (English summary) **2001i:11092**

11J86 Linear forms in logarithms; Baker's method

Bennett, Curtis D. (*with* Elderbrock, Lisa K.; Glass, Andrew M. W.) Zero estimates for polynomials in 3 and 4 variables using orbits and stabilisers. (English summary) **2001k:11142**

Elderbrock, Lisa K. *see* **Bennett, Curtis D. et al., 2001k:11142**

Glass, Andrew M. W. *see* **Bennett, Curtis D. et al., 2001k:11142**

Items with secondary classifications in 11J86

Bugeaud, Yann Lower bounds for the greatest prime factor of $ax^m + by^n$. (English summary) **2001m:11041**

— (*with* Mignotte, Maurice; Roy, Yves) On the Diophantine equation $(x^n - 1)/(x - 1) = y^q$. (English summary) **2001f:11049**

— Fundamental systems of S-units with small height and their applications to Diophantine equations. (English summary) **2001d:11037**

Győry, Kálmán Power values of binomial coefficients. **2001d:11038**

Katayama, Shin-ichi Several methods for solving simultaneous Fermat-Pell equations. (English summary) **2001c:11034**

Luca, Florian (*with* Mignotte, Maurice; Roy, Yves) On the equation $x^y \pm y^x = \prod n_i!$. (English summary) **2001i:11037**

— Distinct digits in base b expansions of linear recurrence sequences. (English summary) **2001i:11014**

— (*with* Mignotte, Maurice) On the equation $y^x \pm x^y = z^2$. (English summary) **2001h:11040**

— On a conjecture of Erdős and Stewart. (English summary) **2001g:11042**

Mignotte, Maurice On the Diophantine equation $\frac{x^q-1}{x-1} = y^q$. (English summary) **2001g:11043**

— Pethő's cubics. (English summary) **2001h:11033**

— *see also* **Bugeaud, Yann et al., 2001f:11049**; **Luca, Florian et al., 2001h:11040** *and* **2001i:11037**

Panzone, Pablo A. A remark on Euler's constant. (English summary) **2001d:11076**

Roy, Yves *see* **Bugeaud, Yann et al., 2001f:11049** *and* **Luca, Florian et al., 2001i:11037**

Shorey, T. N. Some conjectures in the theory of exponential Diophantine equations. **2001i:11038**

Walsh, P. Gary Diophantine equations of the form $aX^4 - bY^2 = \pm 1$. (English summary) **2001h:11034**

11J89 Transcendence theory of elliptic and abelian functions

Ably, Mohammed Formes linéaires de logarithmes de points algébriques sur une courbe elliptique de type CM. (English and French summaries) [Linear forms in logarithms of algebraic points over an elliptic curve of CM type] **2001g:11119**

Diaz, Guy Transcendance et indépendance algébrique: liens entre les points de vue elliptique et modulaire. (English summary) [Transcendence and algebraic independence: connections between the elliptic and modular points of view] **2001g:11120**

— Mahler's conjecture and other transcendence results.

Kim, Daeyeoul (*with* Koo, Ja Kyung) Transcendental numbers as values of elliptic functions. (English summary) **2001m:11127**

Koo, Ja Kyung *see* **Kim, Daeyeoul, 2001m:11127**

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Bertrand, Daniel $\Theta(\tau, z)$ and transcendence.

Eymard, Pierre (*with* Lafon, Jean-Pierre) ★ Autour du nombre π. (French. French summary) [Concerning π] **2001a:11001**

Lafon, Jean-Pierre *see* **Eymard, Pierre, 2001a:11001**

Philippon, Patrice Some remarks on proofs of algebraic independence.

11J91 Transcendence theory of other special functions

Amou, Masaaki On the proof of Mahler-Manin conjecture. (English summary) **2001h:11094**

— (*with* Katsurada, Masanori) On the values of certain q-hypergeometric series. (Japanese) (*see* **2001f:11003**)

Chirskiĭ, V. G. On the arithmetic properties of the values of some functions. (Russian. English and Russian summaries) **2001k:11143**

Galochkin, A. I. On global and nonglobal relations between the values of E-functions. (Russian. Russian summary) **2001f:11119**

— Estimates, sharp with respect to height, for simultaneous approximations of some linear forms. (Russian. Russian summary) **2001i:11093**

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Greuel, Bernd Algebraic independence of the values of Mahler functions satisfying implicit functional equations. **2001g:11121**

Harase, Takashi Algebraicity and rationality of formal power series over $\mathbf{F}_q$. (English summary) (*see* **2001f:11003**)

Ivankov, P. L. On the calculation of the constants involved in the estimation of linear forms. (Russian) **2001e:11084**

Katsurada, Masanori *see* **Amou, Masaaki, (2001f:11003)**

Khessami Pilerud, T. G. Lower bounds for linear forms in values of some hypergeometric functions. (Russian. Russian summary) **2001g:11122**

Nagata, Makoto Recent results on G-functions. (Japanese) (*see* **2001f:11003**)

Shidlovskiĭ, A. B. On the arithmetic properties of values of E-functions. (Russian. Russian summary) **2001a:11131**

Shiokawa, Iekata Application of Nesterenko's theorem on modular functions to transcendency of certain numbers. (English summary) **2001f:11120**

Yılmaz, Gülşen Arithmetical properties of the values of some power series with algebraic coefficients taken for U_m-numbers arguments. (English summary) **2001d:11077**

Items with secondary classifications in 11J91

Chen, Yong-Gao (*with* Zhu, Yao Chen) Algebraic independence of certain numbers. (English summary) **2001h:11092**

Diaz, Guy Transcendance et indépendance algébrique: liens entre les points de vue elliptique et modulaire. (English summary) [Transcendence and algebraic independence: connections between the elliptic and modular points of view] **2001g:11120**

Galochkin, A. I. Lower bounds for polynomials on values of algebraically dependent E-functions. (Russian. English and Russian summaries) **2001g:11116**

Gorelov, V. A. On the algebraic independence of the values of E-functions at singular points and Siegel's conjecture. (Russian. Russian summary) **2001f:11117**

Kanou, Naruo Transcendency of zeros of Eisenstein series. (English summary) **2001k:11068**

Khessami Pilerud, T. G. A lower bound for a linear form. (Russian. Russian summary) **2001e:11080**

— On the linear independence of vectors with polylogarithmic coordinates. (Russian) **2001d:11075**

Nagata, Makoto On: "An estimation on the number of rational values related to G-functions" [Preprint No. RIMS-1231, Kyoto Univ., Res. Inst. Math. Sci., Kyoto, 1999]. **2001i:11089**

Toshimitsu, Takeshi q-additive functions and algebraic independence. **2001m:11126**

Zhu, Yao Chen Algebraic independence by approximation method. II. (Chinese. English and Chinese summaries)

— *see also* **Chen, Yong-Gao, 2001h:11092**

11J93 Transcendence theory of Drinfel'd and t-modules

Denis, Laurent Indépendance algébrique des dérivées d'une période du module de Carlitz. (English summary) [Algebraic independence of the derivatives of a period of the Carlitz module] **2001f:11121**

Laurent, Denis *see* **Sinnou, David, 2001m:11128**

Sinnou, David (*with* Laurent, Denis) Indépendance algébrique sur les T-modules. (English and French summaries) [Algebraic independence on T-modules] **2001m:11128**

11J95 Results involving abelian varieties

Bombieri, E. (*with* Masser, D.; Zannier, Umberto) Intersecting a curve with algebraic subgroups of multiplicative groups. **2001c:11081**

Derome, Geoffroy Transcendance des valeurs des fonctions automorphes de Siegel. (English and French summaries) [Transcendence of the values of Siegel automorphic functions] **2001j:11070**

Hrushovski, Ehud (*with* Pillay, Anand) Effective bounds for the number of transcendental points on subvarieties of semi-abelian varieties. (English summary) **2001d:11078**

Masser, D. *see* **Bombieri, E. et al., 2001c:11081**

Pillay, Anand *see* **Hrushovski, Ehud, 2001d:11078**

Rémond, Gaël Inégalité de Vojta en dimension supérieure. (English summary) [Vojta inequality in higher dimension] **2001g:11123**

Roy, Damien Zero estimates on commutative algebraic groups.

Zannier, Umberto *see* **Bombieri, E. et al., 2001c:11081**

Items with secondary classifications in 11J95

Brownawell, W. Dale The Hilbert Nullstellensatz, inequalities for polynomials, and algebraic independence.

David, Sinnou (*with* Philippon, Patrice) Minorations des hauteurs normalisées des sous-variétés des tores. (English summary) [Lower bounds for the normalized heights of toric subvarieties] **2001a:11109**

— (*with* Hindry, Marc) Minoration de la hauteur de Néron-Tate sur les variétés abéliennes de type C. M. (English summary) [Lower bound for the Néron-Tate height on abelian varieties of CM type] **2001j:11054**

Hindry, Marc *see* **David, Sinnou, 2001j:11054**

Laurent, Michel Algebraic independence in algebraic groups. I. Small transcendence degrees.

Philippon, Patrice *see* **David, Sinnou, 2001a:11109** *and* **Sinnou, David, 2001k:11119**

Sinnou, David (*with* Philippon, Patrice) Errata: "Lower bounds for the normalized heights of toric subvarieties" [Ann. Scuola Norm. Sup. Pisa Cl. Sci. (4) **28** (1999), no. 3, 489–543; MR 2001a:11109]. (French) **2001k:11119**

Waldschmidt, Michel Algebraic independence in algebraic groups. II. Large transcendence degrees.

11J97 Analogues of methods in Nevanlinna theory (work of Vojta et al.)

Ru, Min A uniqueness theorem for rational points in projective space. (English summary) **2001j:11071**

— A weak effective Roth's theorem over function fields. **2001h:11096**

— A note on p-adic Nevanlinna theory. **2001h:11097**

Vojta, Paul Nevanlinna theory and Diophantine approximation. (English summary) **2001j:11072**

— On the *ABC* conjecture and Diophantine approximation by rational points. (English summary) **2001i:11094**
Wang, Julie Tzu-Yueh Cartan's conjecture with moving targets of same growth and effective Wirsing's theorem over function fields. (English summary) **2001g:11124**

Items with secondary classifications in 11J97

Rémond, Gaël Inégalité de Vojta en dimension supérieure. (English and French summaries) [Higher-dimensional Vojta inequality] **2001i:11070**
Ru, Min (*with* Wang, Julie Tzu-Yueh) Diophantine approximation with algebraic points of bounded degree. (English summary) **2001f:11111**
Wang, Julie Tzu-Yueh *see* **Ru, Min, 2001f:11111**

11J99 None of the above, but in this section

Items with secondary classifications in 11J99

Burger, Edward B. ★ Exploring the number jungle: a journey into Diophantine analysis. (English summary) **2001h:11001**
Chen, Wen Yi (*with* Tian, Yan) Diophantine approximation, Gevrey hypoellipticity and almost periodic motion on the torus T^2. (Chinese. English and Chinese summaries) **2001m:35063**
Kleinbock, Dmitry (*with* Margulis, Grigorii A.) Logarithm laws for flows on homogeneous spaces. (English summary) **2001i:37046**
Margulis, Grigorii A. *see* **Kleinbock, Dmitry, 2001i:37046**
Marteau, Nicolas Sur l'espace des solutions entières d'un système d'équations aux différences. (English and French summaries) [On the space of entire solutions of a system of difference equations] **2001m:39026**
Ratner, Marina On the p-adic and S-arithmetic generalizations of Raghunathan's conjectures. (English summary) **2001f:22058**
Tian, Yan *see* **Chen, Wen Yi, 2001m:35063**
Toshimitsu, Takeshi Algebraic solutions of a certain type of functional equations. (Japanese) (*see* **2001f:11003**)

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

11K06 General theory of distribution modulo 1 [see also 11J71]

Konyagin, Sergei V. (*with* Ruzsa, Imre Z.; Schlag, Wilhelm) On uniformly distributed dilates of finite integer sequences. (English summary) **2001f:11122**
László, V. *see* **Mačaj, Martin et al., 2001f:11123**
Mačaj, Martin (*with* László, V.; Šalát, Tibor; Tóth, János T.) Uniform distribution of sequences and porosity of sets. **2001f:11123**
Ruzsa, Imre Z. *see* **Konyagin, Sergei V. et al., 2001f:11122**
Šalát, Tibor On uniform distribution of sequences $(a_n x)_1^\infty$. **2001c:11082**
— *see also* **Mačaj, Martin et al., 2001f:11123**
Schlag, Wilhelm *see* **Konyagin, Sergei V. et al., 2001f:11122**
Strauch, Oto Moment problem of the type $\int_0^1 \int_0^1 F(x,y)dg(x)dg(y) = 0$. (English summary) **2001d:11079**
Tóth, János T. *see* **Mačaj, Martin et al., 2001f:11123**

Items with secondary classifications in 11K06

Boyarinov, R. N. On the asymptotic behavior of sums associated with Farey fractions. (Russian. Russian summary) **2001f:11160**
Gotô, Kazuo (*with* Ohkubo, Yukio) The discrepancy of the sequence $(n\alpha + (\log n)\beta)$. (English summary) **2001k:11149**
Karatsuba, Anatolii A. Regular sets modulo a given number. (Russian. Russian summary) **2001m:11136**
Levin, Mordechay B. Discrepancy estimates of completely uniformly distributed and pseudorandom number sequences. **2001f:11129**
Niederreiter, Harald (*with* Sookoo, Norris) Partial densities on the group of integers. (English summary) **2001g:28021**
Ohkubo, Yukio *see* **Gotô, Kazuo, 2001k:11149**
Schmeling, Jörg (*with* Szabó, Endre; Winkler, Reinhard) Hartman and Beatty bisequences. (English summary) **2001k:11154**
Sookoo, Norris *see* **Niederreiter, Harald, 2001g:28021**
Szabó, Endre *see* **Schmeling, Jörg et al., 2001k:11154**
Winkler, Reinhard *see* **Schmeling, Jörg et al., 2001k:11154**

11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Akiyama, Shigeki Cubic Pisot units with finite beta expansions. (English summary) **2001i:11095**
Allouche, Jean-Paul Nouveaux résultats de transcendance de réels à développement non aléatoire. [New results on the transcendence of real numbers with nonrandom expansion] **2001d:11080**
Bertrand-Mathis, Anne Codage des endomorphismes de Pisot du tore $[0,1[^r$ et mesures simultanément invariantes pour deux homomorphismes du tore. (English and French summaries) [Coding Pisot endomorphisms of the torus $[0,1)^r$ and measures that are simultaneously invariant for two homomorphisms of the torus] **2001j:11073**
Choe, Geon Ho (*with* Kim, Dong Han) Entropy and the randomness of the digits of pi. (English summary) **2001j:11074**
Cooper, Curtis (*with* Kennedy, Robert E.) Finding moments of the large digit function using Delange's method. (English summary) **2001e:11085**
Drmota, Michael The distribution of patterns in digital expansions. (English summary) **2001f:11124**
Gittenberger, Bernhard (*with* Thuswaldner, Jörg M.) Asymptotic normality of b-additive functions on polynomial sequences in the Gaussian number field. (English summary) **2001k:11144**
Ito, Shunji *see* **Sano, Yuki, (2001f:11003)**
Kennedy, Robert E. *see* **Cooper, Curtis, 2001e:11085**
Kim, Dong Han *see* **Choe, Geon Ho, 2001j:11074**
Nillsen, Rodney Normal numbers without measure theory. **2001i:11096**
Sano, Yuki (*with* Ito, Shunji) On periodic β-expansions of Pisot numbers and Rauzy fractals. (Japanese. Japanese summary) (*see* **2001f:11003**)
Schatte, Peter On the points on the unit circle with finite b-adic expansions. (English summary) **2001f:11125**
Shao, Pin Zong On the asymptotic estimation of generating functions for sum-sequences of m-order digit-sequences. (Chinese. English and Chinese summaries) **2001a:11132**
Thuswaldner, Jörg M. *see* **Gittenberger, Bernhard, 2001k:11144**
Ugalde, Edgardo A constructible set of normals with positive measure. **2001i:11097**

Items with secondary classifications in 11K16

Akiyama, Shigeki Self affine tiling and Pisot numeration system. (English summary) **2001b:11094**
Dumont, Jean Marie (*with* Grabner, Peter J.; Thomas, Alain) Distribution of the digits in the expansions of rational integers in algebraic bases. (English summary) **2001f:11132**
Grabner, Peter J. *see* **Dumont, Jean Marie et al., 2001f:11132**
Hoit, Abigail The distribution of generalized sum-of-digits functions in residue classes. (English summary) **2001a:11166**
Mauduit, Christian Problem session dedicated to Gérard Rauzy. **2001i:11001**
(Rauzy, Gérard) *see* **Mauduit, Christian, 2001i:11001**
Thomas, Alain *see* **Dumont, Jean Marie et al., 2001f:11132**

11K31 Special sequences

Embree, Mark (*with* Trefethen, Lloyd N.) Growth and decay of random Fibonacci sequences. (English summary) **2001i:11098**
Grabner, Peter J. (*with* Liardet, Pierre) Harmonic properties of the sum-of-digits function for complex bases. **2001f:11126**
Kubilius, Jonas On some results in probabilistic number theory. (English summary) **2001d:11081**
Liardet, Pierre *see* **Grabner, Peter J., 2001f:11126**
Moshchevitin, Nikolai G. Distribution of Kronecker sequences. (English summary) **2001k:11145**
Pinner, Christopher G. On the one-sided boundedness of sums of fractional parts $(\{n\alpha + \gamma\} - \frac{1}{2})$. (English summary) **2001a:11133**
Puchta, Jan-Christoph (*with* Spilker, Jürgen) Die Thue-Morse-Folge. [The Thue-Morse sequence] **2001k:11146**
Reznick, Bruce On the nonmonotonicity of $(|\mathrm{Im}(z^n)|)$. (English summary) **2001a:11134**
Rittaud, Benoît Équidistribution presque partout modulo 1 de suites oscillantes perturbées. (English and French summaries) [Uniform distribution almost everywhere modulo 1 of oscillating sequences] **2001i:11099**
Spilker, Jürgen *see* **Puchta, Jan-Christoph, 2001k:11146**
Trefethen, Lloyd N. *see* **Embree, Mark, 2001i:11098**
Zhai, Wenguang On the simultaneous distribution of the fractional parts of different powers of prime numbers. (English summary) **2001j:11075**

Items with secondary classifications in 11K31

Allouche, Jean-Paul (*with* Scheicher, Klaus; Tichy, Robert F.) Regular maps in generalized number systems. (English summary) **2001i:11026**
Baxa, Christoph Comparing the distribution of $(n\alpha)$-sequences. **2001e:11086**
Bibiloni, Lluís *see* **Paradís, Jaume et al., 2001g:06003**
Bodnarashik, O. S. (*with* Sarana, A. A.) On the distribution of certain sets of irrational numbers on the segment [0; 1]. (Ukrainian) **2001f:11114**
Cao, Xiao Dong[1] (*with* Zhai, Wenguang) On the distribution of p^n modulo one. (English and French summaries) **2001a:11121**
Downarowicz, Tomasz (*with* Kwiatkowski, Jan; Lacroix, Y.) Spectral isomorphisms of Morse flows. (English summary) **2001b:37010**
Kwiatkowski, Jan *see* **Downarowicz, Tomasz et al., 2001b:37010**
Lacroix, Y. *see* **Downarowicz, Tomasz et al., 2001b:37010**
Messaoudi, Ali Généralisation de la multiplication de Fibonacci. (English summary) [Generalization of Fibonacci multiplication] **2001e:11015**
Niederreiter, Harald (*with* Pirsic, Gottlieb) Duality for digital nets and its applications. **2001m:11130**
Nymann, J. E. (*with* Sáenz, Ricardo A.) On a paper of Guthrie and Nymann on subsums of infinite series. (English summary) **2001f:11015**
— (*with* Sáenz, Ricardo A.) The topological structure of the set of P-sums of a sequence. II. (English summary) **2001a:11020**
Paradís, Jaume (*with* Viader, Pelegrí; Bibiloni, Lluís) A total order in (0, 1] defined through a 'next' operator. (English summary) **2001g:06003**
Pirsic, Gottlieb *see* **Niederreiter, Harald, 2001m:11130**
Sáenz, Ricardo A. *see* **Nymann, J. E., 2001a:11020** *and* **2001f:11015**
Sarana, A. A. *see* **Bodnarashik, O. S., 2001f:11114**
Scheicher, Klaus *see* **Allouche, Jean-Paul et al., 2001i:11026**
Stakenas, V. On local frequencies connected with Farey fractions. (Russian. Russian and Lithuanian summaries) **2001i:11021**
Tichy, Robert F. *see* **Allouche, Jean-Paul et al., 2001i:11026**
Viader, Pelegrí *see* **Paradís, Jaume et al., 2001g:06003**
Zhai, Wenguang *see* **Cao, Xiao Dong[1], 2001a:11121**

11K36 Well-distributed sequences and other variations

Berrizbeitia, Pedro (*with* Elliott, P. D. T. A.) Product bases for the rationals. (English summary) **2001b:11069**
Bukor, József (*with* Tóth, János T.) On completely dense sequences. (English summary) **2001k:11147**
Cilleruelo, Javier Gaps in dense Sidon sets. (English summary) **2001m:11129**
Elliott, P. D. T. A. *see* **Berrizbeitia, Pedro, 2001b:11069**

Grozdanov, V. S. (*with* Miteva, E. G.) On the dyadic diaphony of the Zaremba sequence. **2001k:11148**
Miteva, E. G. *see* **Grozdanov, V. S., 2001k:11148**
Tóth, János T. *see* **Bukor, József, 2001k:11147**

Items with secondary classifications in 11K36

Karatsuba, Anatolii A. (*with* Novak, B.) Arithmetic problems with numbers of a special type. (Russian) **2001e:11102**
Kurlberg, Pär The distribution of spacings between quadratic residues. II. (English summary) **2001m:11163**
Niederreiter, Harald (*with* Xing, Chaoping) Algebraic curves over finite fields with many rational points and their applications. (English summary) **2001c:11067**
Novak, B. *see* **Karatsuba, Anatolii A., 2001e:11102**
Xing, Chaoping *see* **Niederreiter, Harald, 2001c:11067**

11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

Baxa, Christoph Comparing the distribution of $(n\alpha)$-sequences. **2001e:11086**
Chen, W. W. L. On irregularities of distribution. IV. **2001f:11127**
Dress, François Discrépance des suites de Farey. (English and French summaries) [Discrepancy of Farey sequences] **2001c:11083**
Entacher, Karl Haar function based estimates of the star-discrepancy of plane digital nets. (English summary) **2001f:11128**
Gotô, Kazuo (*with* Ohkubo, Yukio) The discrepancy of the sequence $(n\alpha + (\log n)\beta)$. (English summary) **2001k:11149**
— (*with* Ohkubo, Yukio) Discrepancy of some special sequences. (English summary) (*see* **2001f:11003**)
Levin, Mordechay B. Discrepancy estimates of completely uniformly distributed and pseudorandom number sequences. **2001f:11129**
Matoušek, Jiří ★ Geometric discrepancy. (English summary) **2001a:11135**
— On the discrepancy for Cartesian products. (English summary) **2001g:11125**
Niederreiter, Harald (*with* Pirsic, Gottlieb) Duality for digital nets and its applications. **2001m:11130**
Ohkubo, Yukio *see* **Gotô, Kazuo, 2001k:11149** *and* **(2001f:11003)**
Pirsic, Gottlieb *see* **Niederreiter, Harald, 2001m:11130**
Rogers, Allen D. Lower bounds on strip discrepancy for nonatomic colorings. (English summary) **2001g:11126**
Roth, K. F. Limitations to regularity. **2001c:11084**
Scholßengeier, J. The integral mean of the discrepancy of the sequence $(n\alpha)$. (English summary) **2001h:11098**
Thiémard, E. Computing bounds for the star discrepancy. (English summary) **2001i:11100**

Items with secondary classifications in 11K38

Cao, Xiao Dong[1] (*with* Zhai, Wenguang) On the distribution of p^α modulo one. (English and French summaries) **2001a:11121**
Götz, Mario A discrepancy theorem in $\mathbf{R}^d$, $d \geq 3$. (English summary) **2001m:31012**
Grabner, Peter J. (*with* Liardet, Pierre; Tichy, Robert F.) Average case analysis of numerical integration. (English summary) **2001k:65040**
Gutierrez, Jaime (*with* Niederreiter, Harald; Shparlinski, Igor E.) On the multidimensional distribution of inversive congruential pseudorandom numbers in parts of the period. (English summary) **2001e:11088**
Huxley, M. N. The rational points close to a curve. II. **2001k:11132**
Liardet, Pierre *see* **Grabner, Peter J. et al., 2001k:65040**
Lieman, Daniel (*with* Shparlinski, Igor E.) On a new exponential sum. (English summary) **2001m:11138**
Lovász, László Integer sequences and semidefinite programming. (English summary) **2001k:11020**
Niederreiter, Harald *see* **Gutierrez, Jaime et al., 2001e:11088**
Pinner, Christopher G. On the one-sided boundedness of sums of fractional parts $(\{n\alpha + \gamma\} - \frac{1}{2})$. (English summary) **2001a:11133**
Sáenz, A. W. Dynamics of axial channeling in quasicrystals: an averaging-theory approach. (English summary) **2001h:82104**
— Erratum: "Dynamics of axial channeling in quasicrystals: an averaging-theory approach" [J. Math. Phys. **41** (2000), no. 8, 5342–5368; MR 2001h:82104].
Shparlinski, Igor E. *see* **Gutierrez, Jaime et al., 2001e:11088** *and* **Lieman, Daniel, 2001m:11138**
Tichy, Robert F. *see* **Grabner, Peter J. et al., 2001k:65040**
Valkó, Benedek On irregularities of sums of integers. **2001f:11017**
Zhai, Wenguang *see* **Cao, Xiao Dong[1], 2001a:11121**

11K41 Continuous, p-adic and abstract analogues

Albrecher, Hansjörg (*with* Matoušek, Jiří; Tichy, Robert F.) Discrepancy of point sequences on fractal sets. (English summary) **2001k:11150**
van Hameren, André (*with* Kleiss, Ronald; Papadopoulos, Costas G.) Quantum field theory for discrepancies. II. $1/N$ corrections using fermions. (English summary) **2001e:11087**
Kleiss, Ronald *see* **van Hameren, André et al., 2001e:11087**
Li, Xian-Jin (*with* Vaaler, Jeffrey D.) Some trigonometric extremal functions and the Erdős-Turán type inequalities. (English summary) **2001a:11136**
Matoušek, Jiří *see* **Albrecher, Hansjörg et al., 2001k:11150**
Papadopoulos, Costas G. *see* **van Hameren, André et al., 2001e:11087**
Tichy, Robert F. *see* **Albrecher, Hansjörg et al., 2001k:11150**
Vaaler, Jeffrey D. *see* **Li, Xian-Jin, 2001a:11136**

Items with secondary classifications in 11K41

Götz, Mario A discrepancy theorem in $\mathbf{R}^d$, $d \geq 3$. (English summary) **2001m:31012**
Grabner, Peter J. (*with* Liardet, Pierre; Tichy, Robert F.) Average case analysis of numerical integration. (English summary) **2001k:65040**
Liardet, Pierre *see* **Grabner, Peter J. et al., 2001k:65040**
Matoušek, Jiří On the discrepancy for Cartesian products. (English summary) **2001g:11125**
Rogers, Allen D. Lower bounds on strip discrepancy for nonatomic colorings. (English summary) **2001g:11126**
Thiémard, E. Computing bounds for the star discrepancy. (English summary) **2001i:11100**
Tichy, Robert F. *see* **Grabner, Peter J. et al., 2001k:65040**

11K45 Pseudo-random numbers; Monte Carlo methods

Gutierrez, Jaime (*with* Niederreiter, Harald; Shparlinski, Igor E.) On the multidimensional distribution of inversive congruential pseudorandom numbers in parts of the period. (English summary) **2001e:11088**
Niederreiter, Harald (*with* Shparlinski, Igor E.) Exponential sums and the distribution of inversive congruential pseudorandom numbers with prime-power modulus. **2001g:11127**
— (*with* Shparlinski, Igor E.) On the distribution of pseudorandom numbers and vectors generated by inversive methods. (English summary) **2001f:11130**
— *see also* **Gutierrez, Jaime et al., 2001e:11088**
Shparlinski, Igor E. *see* **Gutierrez, Jaime et al., 2001e:11088; Niederreiter, Harald, 2001f:11130** *and* **2001g:11127**
Sugita, Hiroshi (*with* Takanobu, Satoshi) A limit theorem for Weyl transformation in infinite-dimensional torus and central limit theorem for correlated multiple Wiener integrals. (English summary) **2001f:11131**
Takanobu, Satoshi *see* **Sugita, Hiroshi, 2001f:11131**

Items with secondary classifications in 11K45

Doche, Christophe (*with* Mendès France, Michel) Integral geometry and real zeros of Thue-Morse polynomials. (English summary) **2001i:11104**
Goldreich, Oded Pseudorandomness. **2001c:65008**
Griffin, Frances (*with* Shparlinski, Igor E.) On the linear complexity profile of the power generator. (English summary) **2001k:94053**
Levin, Mordechay B. Discrepancy estimates of completely uniformly distributed and pseudorandom number sequences. **2001f:11129**
Mendès France, Michel *see* **Doche, Christophe, 2001i:11104**
Niederreiter, Harald (*with* Winterhof, Arne) Incomplete exponential sums over finite fields and their applications to new inversive pseudorandom number generators. **2001d:11120**
— (*with* Pirsic, Gottlieb) Duality for digital nets and its applications. **2001m:11130**
Pirsic, Gottlieb *see* **Niederreiter, Harald, 2001m:11130**
Shparlinski, Igor E. *see* **Griffin, Frances, 2001k:94053**
Wang, Xiaoqun[1] Improving the rejection sampling method in quasi-Monte Carlo methods. (English summary) **2001a:65005**
Wang, Yuan[1] (*with* Xu, Guang Shan) The approximate solution of equations of mathematical physics by number theoretic methods. (Chinese. English and Chinese summaries) **2001f:35172**
Winterhof, Arne *see* **Niederreiter, Harald, 2001d:11120**
Xu, Guang Shan *see* **Wang, Yuan[1], 2001f:35172**

11K50 Metric theory of continued fractions [see also 11A55, 11J70]

Barbolosi, Dominique Sur l'ordre de grandeur des quotients partiels du développement en fractions continues régulières. (English summary) [On the order of magnitude of the partial quotients of regular continued fraction expansions] **2001a:11137**
Berthé, Valérie (*with* Nakada, Hitoshi) On continued fraction expansions in positive characteristic: equivalence relations and some metric properties. (English summary) **2001h:11099**
Dajani, Karma (*with* Kraaikamp, Cor) "The mother of all continued fractions". (English summary) **2001h:11100**
Fujita, Takahiko (*with* Ito, Shunji; Ninomiya, Syoiti) Symbolical and geometrical characterizations of Kronecker sequences by using the accelerated Brun algorithm. (English summary) **2001g:11128**
Hardcastle, D. M. (*with* Khanin, K.) On almost everywhere strong convergence of multidimensional continued fraction algorithms. (English summary) **2001k:11151**
Harman, Glyn (*with* Wong, Kam C.) A note on the metrical theory of continued fractions. **2001j:11076**
Iosifescu, Marius A reversible random sequence arising in the metric theory of the continued fraction expansion. **2001a:11138**
Ito, Shunji *see* **Fujita, Takahiko et al., 2001g:11128**
Khanin, K. *see* **Hardcastle, D. M., 2001k:11151**
Kontsevich, Maxim (*with* Sukhov, Yu. M.) Statistics of Klein polyhedra and multidimensional continued fractions. (English summary) **2001h:11101**
Kraaikamp, Cor (*with* Nakada, Hitoshi) On normal numbers for continued fractions. (English summary) **2001i:11101**
— *see also* **Dajani, Karma, 2001h:11100**
Nakada, Hitoshi *see* **Berthé, Valérie, 2001h:11099** *and* **Kraaikamp, Cor, 2001i:11101**
Ninomiya, Syoiti *see* **Fujita, Takahiko et al., 2001g:11128**
Popescu, Cristina On the rate of convergence in Gauss' problem for the continued fraction expansion with odd partial quotients. (English summary) **2001j:11077**
Sebe, Gabriela Ileana On the application of topological infinite order chains to the theory of regular continued fractions. (English and Romanian summaries) **2001i:11102**
Sukhov, Yu. M. *see* **Kontsevich, Maxim, 2001h:11101**
Wong, Kam C. *see* **Harman, Glyn, 2001j:11076**

Items with secondary classifications in 11K50

Flajolet, Philippe (*with* Vallée, Brigitte) Continued fractions, comparison algorithms, and fine structure constants. (English summary) **2001h:11161**
Fujita, Takahiko (*with* Ito, Shunji; Ninomiya, Syoiti) Symbolical and geometrical characterizations of Kronecker sequences by using the accelerated Brun's algorithm. (English summary) (*see* **2001d:00053**)
Golubeva, E. P. The spectrum of Lévy constants for quadratic irrationalities. (Russian. Russian summary) **2001b:11065**

Iosifescu, Marius On the Gauss-Kuzmin-Lévy theorem. III. (English summary) **2001c:40002**
Ito, Shunji *see* **Fujita, Takahiko et al.**, (2001d:00053)
Jenkinson, Oliver Frequency locking on the boundary of the barycentre set. (English summary) **2001g:37050**
Moshchevitin, Nikolai G. Continued fractions, multidimensional Diophantine approximations and applications. (English and French summaries) **2001c:11079**
Ninomiya, Syoiti *see* **Fujita, Takahiko et al.**, (2001d:00053)
Pustyl'nikov, L. D. Generalized continued fractions and ergodic theory. **2001k:11158**
Schweiger, F. Kuzmin's theorem revisited. (English summary) **2001i:37017**
Sebe, Gabriela Ileana A generalization of the topological Markov chain and related questions. (English and Romanian summaries) **2001k:37028**
— On the transition operator associated with the Hurwitz dynamical system. (English and Romanian summaries) **2001k:37057**
Vallée, Brigitte *see* **Flajolet, Philippe**, **2001h:11161**

11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99, 28Dxx]

Benedek, Agnes (*with* Panzone, Rafael) ★ Un sistema numérico de base real para los números complejos. (English) [A number system with real base for complex numbers] **2001h:11102**
Dickinson, Henrietta *see* **Rynne, Bryan P.**, **2001g:11129**
Dumont, Jean Marie (*with* Grabner, Peter J.; Thomas, Alain) Distribution of the digits in the expansions of rational integers in algebraic bases. (English summary) **2001f:11132**
Goldstern, Martin (*with* Schmeling, Jörg; Winkler, Reinhard) Metric, fractal dimensional and Baire results on the distribution of subsequences. (English summary) **2001k:11152**
Grabner, Peter J. *see* **Dumont, Jean Marie et al.**, **2001f:11132**
Messaoudi, Ali Frontière du fractal de Rauzy et système de numération complexe. [Rauzy fractal boundary and complex number system] **2001m:11131**
Panzone, Rafael *see* **Benedek, Agnes**, **2001h:11102**
Rynne, Bryan P. (*with* Dickinson, Henrietta) Hausdorff dimension and a generalized form of simultaneous Diophantine approximation. **2001g:11129**
Schmeling, Jörg *see* **Goldstern, Martin et al.**, **2001k:11152**
Schratzberger, B. R. The exponent of convergence for Brun's algorithm in two dimensions. (English summary) **2001c:11085**
Thomas, Alain *see* **Dumont, Jean Marie et al.**, **2001f:11132**
Winkler, Reinhard *see* **Goldstern, Martin et al.**, **2001k:11152**
Wu, Jun[2] A problem of Galambos on Engel expansions. **2001f:11133**

Items with secondary classifications in 11K55

de A. Moreira, Carlos Gustavo T. Sums of regular Cantor sets, dynamics and applications to number theory. **2001b:28010**
Barbour, Andrew D. (*with* Gerrard, R. M.; Reinert, G.) Iterates of expanding maps. (English summary) **2001d:37040**
Bernik, V. I. (*with* Dodson, M. M.) ★ Metric Diophantine approximation on manifolds. (English summary) **2001h:11091**
Dajani, Karma (*with* Kraaikamp, Cor) "The mother of all continued fractions". (English summary) **2001h:11100**
Dickinson, Henrietta (*with* Dodson, M. M.) Extremal manifolds and Hausdorff dimension. **2001f:11116**
Dodson, M. M. *see* **Dickinson, Henrietta**, **2001f:11116** *and* **Bernik, V. I.**, **2001h:11091**
Doudékova-Puydebois, Maria Une famille d'odomètres faiblement mélangeants. (English and French summaries) [A family of weakly mixing odometers] **2001h:37008**
Ganatsiou, C. On a Gauss-Kuzmin type problem for piecewise fractional linear maps with explicit invariant measure. (English summary) **2001i:60174**
Gerrard, R. M. *see* **Barbour, Andrew D. et al.**, **2001d:37040**
Kraaikamp, Cor *see* **Dajani, Karma**, **2001h:11100**
Lau, Ka-Sing (*with* Ngai, Sze-Man) L^q-spectrum of Bernoulli convolutions associated with P. V. numbers. **2001c:28010**
Lee, Min-Young On the Daróczy-Kátai-birthday expansion. (English summary) **2001m:11115**
Mingo, James A. The classification of one-dimensional almost periodic tilings arising from the projection method. (English summary) **2001e:37024**
Naito, Koichiro Correlation dimensions of quasi-periodic orbits with frequencies given by Roth numbers. (English summary) **2001k:11153**
— Correlation dimensions of quasi-periodic orbits with frequencies given by quasi Roth numbers. (English summary) **2001h:37051**
Ngai, Sze-Man *see* **Lau, Ka-Sing**, **2001c:28010**
Reinert, G. *see* **Barbour, Andrew D. et al.**, **2001d:37040**
Šalát, Tibor On uniform distribution of sequences $(a_n x)_1^\infty$. **2001c:11082**

11K60 Diophantine approximation [see also 11Jxx]

Dickinson, Henrietta (*with* Dodson, M. M.; Yuan, Jin[1]) Hausdorff dimension and p-adic Diophantine approximation. **2001m:11132**
Dodson, M. M. *see* **Dickinson, Henrietta et al.**, **2001m:11132**
Harman, Glyn Variants of the second Borel-Cantelli lemma and their applications in metric number theory. **2001h:11103**
Naito, Koichiro Correlation dimensions of quasi-periodic orbits with frequencies given by Roth numbers. (English summary) **2001k:11153**
Yuan, Jin[1] *see* **Dickinson, Henrietta et al.**, **2001m:11132**

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Bergelson, Vitaly Ergodic theory and Diophantine problems. **2001g:37005**
Dickinson, Henrietta *see* **Rynne, Bryan P.**, **2001g:11129**
Forrest, Alan Symmetric cocycles and classical exponential sums. (English summary) **2001g:11133**
Jia, Chaohua On the distribution of αp modulo one. II. (English summary) **2001k:11137**
Moshchevitin, Nikolai G. Distribution of Kronecker sequences. (English summary) **2001k:11145**
Rynne, Bryan P. (*with* Dickinson, Henrietta) Hausdorff dimension and a generalized form of simultaneous Diophantine approximation. **2001g:11129**
Skriganov, M. M. Ergodic theory on SL(n), Diophantine approximations and anomalies in the lattice point problem. **2001a:11170**
— (*with* Starkov, A. N.) On logarithmically small errors in the lattice point problem. (English summary) **2001j:11095**
Starkov, A. N. *see* **Skriganov, M. M.**, **2001j:11095**

11K65 Arithmetic functions [see also 11Nxx]

Bareikis, G. (*with* Indlekofer, K.-H.) Multiplicative processes in short intervals. (English and Lithuanian summaries) **2001e:11089**
— (*with* Indlekofer, K.-H.) Multiplicative processes on the set of shifted primes. (English and Lithuanian summaries) **2001m:11133**
Dobbs, David E. (*with* Johnson, Laura E.) On the probability that Eisenstein's criterion applies to an arbitrary irreducible polynomial. **2001i:11103**
Indlekofer, K.-H. *see* **Bareikis, G.**, **2001e:11089** *and* **2001m:11133**
Johnson, Laura E. *see* **Dobbs, David E.**, **2001i:11103**
Kátai, Imre (*with* Subbarao, M. V.) Local peaks of additive functions. (English summary) **2001f:11134**
Subbarao, M. V. *see* **Kátai, Imre**, **2001f:11134**

Items with secondary classifications in 11K65

Bui Minh Phong *see* **Kátai, Imre**, **2001h:11126**
Elliott, P. D. T. A. The multiplicative group of rationals generated by the shifted primes. II. **2001b:11085**
Hwang, Hsien-Kuei Distribution of the number of factors in random ordered factorizations of integers. (English summary) **2001k:11183**
Kátai, Imre (*with* Bui Minh Phong) On some pairs of multiplicative functions correlated by an equation. II. (English summary) **2001h:11126**
Ruzsa, Imre Z. Additive functions with monotonic norm. (English summary) **2001e:11101**
Toshimitsu, Takeshi q-additive functions and algebraic independence. **2001m:11126**

11K70 Harmonic analysis and almost periodicity

Lagarias, Jeffrey C. (*with* Reeds, James A.; Wang, Yang[3]) Orthonormal bases of exponentials for the n-cube. **2001h:11104**
Reeds, James A. *see* **Lagarias, Jeffrey C. et al.**, **2001h:11104**
Schmeling, Jörg (*with* Szabó, Endre; Winkler, Reinhard) Hartman and Beatty bisequences. (English summary) **2001k:11154**
Szabó, Endre *see* **Schmeling, Jörg et al.**, **2001k:11154**
Wang, Yang[3] *see* **Lagarias, Jeffrey C. et al.**, **2001h:11104**
Winkler, Reinhard *see* **Schmeling, Jörg et al.**, **2001k:11154**

Items with secondary classifications in 11K70

Elliott, P. D. T. A. Products of shifted primes. Multiplicative analogues of Goldbach's problems. II. (English summary) **2001b:11082**
— Products of shifted primes: multiplicative analogues of Goldbach's problem. **2001b:11081**
Kolountzakis, Mihail N. Packing, tiling, orthogonality and completeness. (English summary) **2001g:52030**
Schlottmann, Martin Generalized model sets and dynamical systems. (English summary) **2001k:52035**

11K99 None of the above, but in this section

Dembo, Amir (*with* Vershik, A. M.; Zeitouni, Ofer) Large deviations for integer partitions. (English summary) **2001h:11105**
Doche, Christophe (*with* Mendès France, Michel) Integral geometry and real zeros of Thue-Morse polynomials. (English summary) **2001i:11104**
Mendès France, Michel *see* **Doche, Christophe**, **2001i:11104**
Vershik, A. M. *see* **Dembo, Amir et al.**, **2001h:11105**
Zeitouni, Ofer *see* **Dembo, Amir et al.**, **2001h:11105**

Items with secondary classifications in 11K99

Babu, G. Jogesh (*with* Manstavičius, Eugenijus) Brownian motion for random permutations. (English summary) **2001j:60016**
Dobbs, David E. (*with* Johnson, Laura E.) On the probability that Eisenstein's criterion applies to an arbitrary irreducible polynomial. **2001i:11103**
Erdoğan, M. Burak Analytic and asymptotic properties of non-symmetric Linnik's probability densities. (English summary) **2001g:60032**
Johnson, Laura E. *see* **Dobbs, David E.**, **2001i:11103**
Kong, Fan Chao (*with* Tang, Qi He) Notes on Erdős' conjecture. (English summary) **2001k:60032**
Manstavičius, Eugenijus *see* **Babu, G. Jogesh**, **2001j:60016**
Neuwirth, Stefan Two random constructions inside lacunary sets. **2001c:42007**
Tang, Qi He *see* **Kong, Fan Chao**, **2001k:60032**
Yang, Qi Bin Probabilistic analysis of Goldbach conjecture. (Chinese summary)

11Lxx Exponential sums and character sums {For finite fields, see 11Txx.}

11L03 Trigonometric and exponential sums, general

Cochrane, Todd (*with* Zheng, Zhiyong) Exponential sums with rational function entries. **2001g:11130**

Cvijović, Djurdje (*with* Klinowski, Jacek) Finite cotangent sums and the Riemann zeta function. (English summary) **2001d:11082**
Klinowski, Jacek *see* **Cvijović, Djurdje, 2001d:11082**
Konyagin, Sergei V. (*with* Lev, Vsevolod F.) On the distribution of exponential sums. (English summary) **2001i:11105**
Lam, T. Y. (*with* Leung, Ka Hin) On vanishing sums of roots of unity. (English summary) **2001f:11135**
Leung, Ka Hin *see* **Lam, T. Y., 2001f:11135**
Lev, Vsevolod F. *see* **Konyagin, Sergei V., 2001i:11105**
Moisio, Marko J. A note on evaluations of some exponential sums. **2001a:11139**
Sankaranarayanan, Ayyadurai The role of exponential sums in number theory. (*see* **2001f:11003**)
Zheng, Zhiyong *see* **Cochrane, Todd, 2001g:11130**

Items with secondary classifications in 11L03

Brüdern, Jörg (*with* Perelli, Alberto; Wooley, Trevor D.) Twins of k-free numbers and their exponential sum. **2001c:11113**
Chen, Yong-Gao The best quantitative Kronecker's theorem. (English summary) **2001i:11086**
Codecà, Paolo (*with* Nair, Mohan) A note on a result of Bateman and Chowla. **2001d:11096**
Kovalevskaya, È. I. On the exact order of simultaneous approximations of almost all points of linear manifolds. (Russian. English and Russian summaries) **2001e:11083**
Nair, Mohan *see* **Codecà, Paolo, 2001d:11096**
Perelli, Alberto *see* **Brüdern, Jörg et al., 2001c:11113**
Wooley, Trevor D. *see* **Brüdern, Jörg et al., 2001c:11113**

11L05 Gauss and Kloosterman sums; generalizations

Armitage, Vernon (*with* Rogers, Alice) Gauss sums and quantum mechanics. (English summary) **2001j:11078**
Bruggeman, Roelof W. Kloosterman sums for the modular group. (English summary) **2001a:11140**
Denef, Jan (*with* Gyōja, Akihiko) Erratum: "Character sums associated to prehomogeneous vector spaces" [Compositio Math. **113** (1998), no. 3, 273–346; MR 99k:11128]. **Gyōja, Akihiko** *see* **Denef, Jan**
Heath-Brown, D. R. Kummer's conjecture for cubic Gauss sums. (English summary) **2001m:11134**
Ito, Hiroshi[2] On a product related to the cubic Gauss sum. III. (English summary) **2001m:11135**
Karatsuba, Anatolii A. Regular sets modulo a given number. (Russian. Russian summary) **2001m:11136**
— Double Kloosterman sums. (Russian. Russian summary) **2001f:11136**
Lichtin, Ben On a question of Igusa: towards a theory of several variable asymptotic expansions. I. (English summary) **2001c:11086**
Matkarimov, B. T. The Riemann non-differentiable function and identities for the Gaussian sums. **2001g:11131**
Pacharoni, Inés Evaluation of Kloosterman and Salié sums for arbitrary number fields. **2001c:11087**
Rogers, Alice *see* **Armitage, Vernon, 2001j:11078**
Sarnak, Peter Kloosterman, quadratic forms and modular forms. (English summary) **2001k:11155**
Šach, Ondrej Monodromy of Airy and Kloosterman sheaves. **2001g:11132**
Wu, Sheng Li Quadratic residues and Gallagher mean values. (Chinese. English and Chinese summaries) **2001a:11141**
Yi, Yuan (*with* Zhang, Wen Peng) The first power mean of Dirichlet L-functions with the weight of Gauss sums. (Chinese. English and Chinese summaries) **2001i:11106**
— *see also* **Zhang, Wen Peng. (2001f:11003)**
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— *see also* **Yi, Yuan, 2001i:11106**

Items with secondary classifications in 11L05

Ahlgren, Scott (*with* Ono, Ken) A Gaussian hypergeometric series evaluation and Apéry number congruences. (English summary) **2001c:11057**
Alvarez-Parrilla, Alvaro Asymptotic relations among Fourier coefficients of real-analytic Eisenstein series. (English summary) **2001g:11061**
Aoki, Miho The Iwasawa main conjecture and Gauss sums. (Japanese) (*see* **2001h:00016**)
Booker, Andrew R. A test for identifying Fourier coefficients of automorphic forms and application to Kloosterman sums. (English summary) **2001k:11077**
Chai, Ching-Li (*with* Li, Wen-Ching Winnie) Function fields: arithmetic and applications. (English summary) **2001f:11151**
Chou, Wun-Seng (*with* Cohen, Stephen D.) Primitive elements with zero traces. (English summary) **2001k:11257**
Cobeli, Cristian (*with* Vâjâitu, M.; Zaharescu, Alexandru) The sequence $n!$ (mod p). (English summary) **2001g:11153**
Cohen, Stephen D. Kloosterman sums and primitive elements in Galois fields. **2001h:11152**
— *see also* **Chou, Wun-Seng, 2001k:11257**
Conrey, J. Brian (*with* Iwaniec, Henryk) The cubic moment of central values of automorphic L-functions. **2001g:11070**
Evans, Ronald (*with* Hollmann, Henk D. L.; Krattenthaler, Christian; Xiang, Qing) Gauss sums, Jacobi sums, and p-ranks of cyclic difference sets. (English summary) **2001b:05038**
— Classical congruences for parameters in binary quadratic forms. (English summary) **2001i:11043**
Gao, Li[2] (*with* Zhao, Zhen[4]; Wang, Hui[1]) The distribution property of D. H. Lehmer numbers. (Chinese. English and Chinese summaries) **2001e:11098**
Gutierrez, Jaime (*with* Niederreiter, Harald; Shparlinski, Igor E.) On the multidimensional distribution of inversive congruential pseudorandom numbers in parts of the period. (English summary) **2001e:11088**
Haukkanen, Pentti The Dirichlet inverse of Ramanujan's sum via principal functions. **2001d:11008**
Hollmann, Henk D. L. *see* **Evans, Ronald et al., 2001b:05038**
Iwaniec, Henryk *see* **Conrey, J. Brian, 2001g:11070**
Jacquet, Hervé A theorem of density for Kloosterman integrals. **2001e:11054**
Krattenthaler, Christian *see* **Evans, Ronald et al., 2001b:05038**
Kuroda, Mitsuru[2] (*with* Mimura, Yoshio) Gauss sums and quadratic forms on matrices. (English summary) **2001k:11255**
Lemmermeyer, Franz ★ Reciprocity laws. (English summary) **2001i:11009**
Li, Wen-Ching Winnie *see* **Chai, Ching-Li, 2001f:11151**
Mimura, Yoshio *see* **Kuroda, Mitsuru**[2]**, 2001k:11255**
Moreno, Carlos Julio Exponential sums and stationary phase. I. (English summary) **2001i:11147**
Niederreiter, Harald (*with* Shparlinski, Igor E.) On the distribution of pseudorandom numbers and vectors generated by inversive methods. (English summary) **2001f:11130**
— *see also* **Gutierrez, Jaime et al., 2001e:11088**
Ono, Ken *see* **Ahlgren, Scott, 2001c:11057**
Pribitkin, Wladimir de Azevedo A generalization of the Goldfeld-Sarnak estimate on Selberg's Kloosterman zeta-function. (English summary) **2001h:11118**
Schlag, Wilhelm On minima of the absolute value of certain random exponential sums. (English summary) **2001g:42014**
Shparlinski, Igor E. *see* **Gutierrez, Jaime et al., 2001e:11088** *and* **Niederreiter, Harald, 2001f:11130**
Tóth, Árpád Roots of quadratic congruences. **2001m:11159**
Vâjâitu, M. *see* **Cobeli, Cristian et al., 2001g:11153**
Vinogradov, A. I. Binary problems. Spectral approach. II. (Russian. English and Russian summaries) **2001c:11111**
— Binary problems. Spectral approach. III. (Russian. English and Russian summaries) **2001c:11112**
— The Selberg Z-function and the Lindelöf conjecture. (Russian. English and Russian summaries) **2001k:11175**
Wang, Hui[1] *see* **Gao, Li**[2] **et al., 2001e:11098**
Xiang, Qing *see* **Evans, Ronald et al., 2001b:05038**
Ye, Yangbo Estimation of exponential sums of polynomials of higher degrees. II. **2001d:11086**
Zaharescu, Alexandru *see* **Cobeli, Cristian et al., 2001g:11153**
Zhao, Zhen[4] *see* **Gao, Li**[2] **et al., 2001e:11098**

11L07 Estimates on exponential sums

Bachman, Gennady Exponential sums with multiplicative coefficients. (English summary) **2001a:11142**
Cao, Xiao Dong[1] (*with* Zhai, Wenguang) Multiple exponential sums with monomials. **2001d:11083**
— *see also* **Zhai, Wenguang, 2001b:11071**
Daboussi, Hedi (*with* Rivat, Joël) Explicit upper bounds for exponential sums over primes. (English summary) **2001k:11156**
Friedlander, John B. (*with* Shparlinski, Igor E.) Double exponential sums over thin sets. (English summary) **2001m:11137**
Heath-Brown, D. R. (*with* Konyagin, Sergei V.) New bounds for Gauss sums derived from kth powers, and for Heilbronn's exponential sum. (English summary) **2001h:11106**
Katz, Nicholas M. Estimates for "singular" exponential sums. **2001d:11084**
Konyagin, Sergei V. *see* **Heath-Brown, D. R., 2001h:11106**
Lieman, Daniel (*with* Shparlinski, Igor E.) On a new exponential sum. (English summary) **2001m:11138**
Loxton, J. H. Estimates for complete multiple exponential sums. **2001b:11070**
Meng, Cui (*with* Wang, Xin Song) An estimation for an exponential sum. (Chinese. English and Chinese summaries) **2001m:11139**
Mikawa, Hiroshi On exponential sums over primes in arithmetic progressions. **2001k:11157**
Parsell, Scott T. Multiple exponential sums over smooth numbers. (English summary) **2001m:11140**
Rivat, Joël *see* **Daboussi, Hedi, 2001k:11156**
Robert, O. (*with* Sargos, Patrick) Un théorème de moyenne pour les sommes d'exponentielles. Application à l'inégalité de Weyl. (French summary) [A mean value theorem for exponential sums. Application to the Weyl inequality] **2001d:11085**
Sargos, Patrick (*with* Wu, Jie[1]) Multiple exponential sums with monomials and their applications in number theory. (English summary) **2001m:11141**
— Un critère de la dérivée cinquième pour les sommes d'exponentielles. (English and French summaries) [A fifth-derivative criterion for exponential sums] **2001c:11088**
— *see also* **Robert, O., 2001d:11085**
Shparlinski, Igor E. *see* **Friedlander, John B., 2001m:11137** *and* **Lieman, Daniel, 2001m:11138**
Solé, Patrick Towers of function fields and iterated means. (English summary) **2001h:11107**
Vinogradov, A. I. On a conjecture of Linnik. I. (Russian. English and Russian summaries) **2001a:11143**
Wang, Xin Song *see* **Meng, Cui, 2001m:11139**
Watt, N. On similar short sums. (English summary) **2001a:11144**
Wooley, Trevor D. Weyl's inequality and exponential sums over binary forms. **2001m:11142**
Wu, Jie[1] *see* **Sargos, Patrick, 2001m:11141**
Ye, Yangbo Estimation of exponential sums of polynomials of higher degrees. II. **2001d:11086**
Zhai, Wenguang (*with* Cao, Xiao Dong[1]) On the distribution of r-full and l-free integers in short intervals. (English summary) **2001b:11071**
— *see also* **Cao, Xiao Dong**[1]**, 2001d:11083**

Items with secondary classifications in 11L07

Cochrane, Todd (*with* Zheng, Zhiyong) Exponential sums with rational function entries. **2001g:11130**

Fatkina, S. Yu. On the representation of a positive integer by the sum of three almost equal summands generated by prime numbers. (Russian) **2001a:11171**
Gotô, Kazuo Some results on Littlewood's problem and Orlicz's problem. (English summary) **2001m:42003**
— (*with* Ohkubo, Yukio) The discrepancy of the sequence $(n\alpha + (\log n)\beta)$. (English summary) **2001k:11149**
Heath-Brown, D. R. The largest prime factor of $X^3 + 2$. **2001m:11158**
Hooley, Christopher On binary cubic forms. II. **2001f:11161**
Huxley, M. N. (*with* Watt, N.) The number of ideals in a quadratic field. II. (English summary) **2001m:11203**
Karatsuba, Anatoliĭ A. Double Kloosterman sums. (Russian. Russian summary) **2001f:11136**
Kuba, Gerald On the distribution of squares of integral quaternions. **2001m:11165**
Kühleitner, Manfred Lattice points in bodies of revolution in $\mathbf{R}^3$: an Ω_--estimate for the error term. (English summary) **2001a:11169**
Kurlberg, Pär (*with* Rudnick, Zeév) Hecke theory and equidistribution for the quantization of linear maps of the torus. **2001f:11065**
Luo, Wenzhi Rational points on complete intersections over $\mathbf{F}_p$. **2001h:11079**
Niederreiter, Harald (*with* Shparlinski, Igor E.) Exponential sums and the distribution of inversive congruential pseudorandom numbers with prime-power modulus. **2001g:11127**
Ohkubo, Yukio *see* **Gotô, Kazuo, 2001k:11149**
Parsell, Scott T. The density of rational lines on cubic hypersurfaces. (English summary) **2001j:11010**
Popov, D. A. On the number of lattice points in three-dimensional bodies of revolution. (Russian. Russian summary) **2001g:11155**
Popov, O. V. Arithmetic applications for estimates for Weyl sums of polynomials of growing degree. (Russian. English and Russian summaries) **2001h:11109**
Rudnick, Zeév *see* **Kurlberg, Pär, 2001f:11065**
Shparlinski, Igor E. *see* **Niederreiter, Harald, 2001g:11127**
Stein, Elias M. (*with* Wainger, Stephen) Discrete analogues in harmonic analysis. II. Fractional integration. **2001g:42038**
Wainger, Stephen *see* **Stein, Elias M., 2001g:42038**
Watt, N. *see* **Huxley, M. N., 2001m:11203**
Wooley, Trevor D. Quasi-diagonal behaviour and smooth Weyl sums. (English summary) **2001f:11137**
Yu, Gang[1] On the number of divisors of the quadratic form $m^2 + n^2$. (English summary) **2001f:11162**
Zhai, Wenguang On the k-dimensional Piatetski-Shapiro prime number theorem. (English summary) **2001c:11099**
— On the average number of unitary factors of finite abelian groups. II. (English summary) **2001j:11092**
— On the simultaneous distribution of the fractional parts of different powers of prime numbers. (English summary) **2001j:11075**
Zheng, Zhiyong *see* **Cochrane, Todd, 2001g:11130**

11L10 Jacobsthal and Brewer sums; other complete character sums

Conrey, J. Brian (*with* Granville, Andrew; Poonen, Bjorn; Soundararajan, K.) Zeros of Fekete polynomials. (English and French summaries) **2001h:11108**
Granville, Andrew *see* **Conrey, J. Brian et al., 2001h:11108**
Poonen, Bjorn *see* **Conrey, J. Brian et al., 2001h:11108**
Soundararajan, K. *see* **Conrey, J. Brian et al., 2001h:11108**

Items with secondary classifications in 11L10

Cochrane, Todd (*with* Zheng, Zhiyong) Exponential sums with rational function entries. **2001g:11130**
Zheng, Zhiyong *see* **Cochrane, Todd, 2001g:11130**

11L15 Weyl sums

Allakov, I. A. On an estimate for a trigonometric sum. (Russian. English and Russian summaries) **2001j:11079**
Forrest, Alan Symmetric cocycles and classical exponential sums. (English summary) **2001g:11133**
Popov, O. V. Arithmetic applications for estimates for Weyl sums of polynomials of growing degree. (Russian. English and Russian summaries) **2001h:11109**
Pustyl'nikov, L. D. Generalized continued fractions and ergodic theory. **2001k:11158**
Wooley, Trevor D. Quasi-diagonal behaviour and smooth Weyl sums. (English summary) **2001f:11137**

Items with secondary classifications in 11L15

Brüdern, Jörg (*with* Wooley, Trevor D.) On Waring's problem: two cubes and seven biquadrates. **2001k:11189**
— (*with* Wooley, Trevor D.) On Waring's problem for cubes and smooth Weyl sums. **2001j:11093**
Meng, Cui (*with* Wang, Xin Song) An estimation for an exponential sum. (Chinese. English and Chinese summaries) **2001m:11139**
Mozzochi, C. J. On the distribution of the eigenvalues of the hyperbolic Laplacian for PSL(2, Z). II. (English summary) **2001m:11086**
Robert, O. (*with* Sargos, Patrick) Un théorème de moyenne pour les sommes d'exponentielles. Application à l'inégalité de Weyl. (French summary) [A mean value theorem for exponential sums. Application to the Weyl inequality] **2001d:11085**
Rodnianski, Igor Fractal solutions of the Schrödinger equation. (English summary) **2001g:81055**
Sargos, Patrick *see* **Robert, O., 2001d:11085**
Wang, Xin Song *see* **Meng, Cui, 2001m:11139**
Wooley, Trevor D. *see* **Brüdern, Jörg, 2001j:11093** *and* **2001k:11189**

11L20 Sums over primes

Wang, Yong Hui Some exponential sums over primes over an arithmetic progression. (Chinese. English and Chinese summaries) **2001f:11138**

Items with secondary classifications in 11L20

Daboussi, Hedi (*with* Rivat, Joël) Explicit upper bounds for exponential sums over primes. (English summary) **2001k:11156**
Fatkina, S. Yu. On the representation of a positive integer by the sum of three almost equal summands generated by prime numbers. (Russian) **2001a:11171**
Grytczuk, Aleksander (*with* Luca, Florian; Wójtowicz, Marek) On a conjecture of Mąkowski and Schinzel concerning the composition of the arithmetic functions σ and φ. (English summary) **2001k:11009**
Languasco, Alessandro (*with* Perelli, Alberto) Pair correlation of zeros, primes in short intervals and exponential sums over primes. (English summary) **2001m:11151**
Luca, Florian *see* **Grytczuk, Aleksander et al., 2001k:11009**
Perelli, Alberto *see* **Languasco, Alessandro, 2001m:11151**
Rivat, Joël *see* **Daboussi, Hedi, 2001k:11156**
Tóth, Árpád Roots of quadratic congruences. **2001m:11159**
Wójtowicz, Marek *see* **Grytczuk, Aleksander et al., 2001k:11009**
Zhai, Wenguang On the k-dimensional Piatetski-Shapiro prime number theorem. (English summary) **2001c:11099**

11L26 Sums over arbitrary intervals

Items with secondary classifications in 11L26

Grytczuk, Aleksander (*with* Luca, Florian; Wójtowicz, Marek) On a conjecture of Mąkowski and Schinzel concerning the composition of the arithmetic functions σ and φ. (English summary) **2001k:11009**
Karatsuba, Anatoliĭ A. Character sums with weights. (Russian. Russian summary) **2001d:11087**
Luca, Florian *see* **Grytczuk, Aleksander et al., 2001k:11009**
Urbanowicz, Jerzy (*with* Williams, Kenneth S.) ★ Congruences for L-functions. (English summary) **2001k:11209**
Williams, Kenneth S. *see* **Urbanowicz, Jerzy, 2001k:11209**
Wójtowicz, Marek *see* **Grytczuk, Aleksander et al., 2001k:11009**

11L40 Estimates on character sums

Conrey, J. Brian (*with* Farmer, D. W.; Soundararajan, K.) Transition mean values of real characters. (English summary) **2001c:11089**
Farmer, D. W. *see* **Conrey, J. Brian et al., 2001c:11089**
Karatsuba, Anatoliĭ A. Character sums with weights. (Russian. Russian summary) **2001d:11087**
Liu, Chun Lei[1] Local and global character sums. (English summary) **2001f:11139**
Simalarides, Anastasios D. An elementary proof of Pólya-Vinogradov's inequality. II. (English summary) **2001f:11140**
Soundararajan, K. *see* **Conrey, J. Brian et al., 2001c:11089**
Tureshbaev, B. A. An estimate for complete sums of Dirichlet characters of polynomials. (Russian. Russian summary) **2001f:11141**
Xie, Min (*with* Zhang, Wen Peng) On the $2k$th mean value formula of general Dedekind sums. (Chinese. English and Chinese summaries) **2001m:11143**
Yanagisawa, Naoki Mean estimates of some character sums. (Japanese) **2001d:11088**
Zhang, Wen Peng *see* **Xie, Min, 2001m:11143**

Items with secondary classifications in 11L40

Cochrane, Todd (*with* Zheng, Zhiyong) Exponential sums with rational function entries. **2001g:11130**
Heath-Brown, D. R. Kummer's conjecture for cubic Gauss sums. (English summary) **2001m:11134**
Huxley, M. N. (*with* Watt, N.) The number of ideals in a quadratic field. II. (English summary) **2001m:11203**
— (*with* Watt, N.) Hybrid bounds for Dirichlet's L-function. **2001f:11107**
Katsurada, Masanori (*with* Matsumoto, Kohji) A weighted integral approach to the mean square of Dirichlet L-functions. (English summary) **2001c:11091**
Kühleitner, Manfred Lattice points in bodies of revolution in $\mathbf{R}^3$: an Ω_--estimate for the error term. (English summary) **2001a:11169**
Matsumoto, Kohji *see* **Katsurada, Masanori, 2001c:11091**
Moreno, Carlos Julio Harmonic analysis on finite rings and applications. **2001k:11256**
Müller, Wolfgang[2] Lattice points in large convex bodies. (English summary) **2001b:11090**
Popov, A. Yu. The work of S. B. Stechkin on number theory. (Russian. English and Russian summaries) **2001g:11002**
(Stechkin, Sergei Borisovich) *see* **Popov, A. Yu., 2001g:11002**
Watt, N. On similar short sums. (English summary) **2001a:11144**
— *see also* **Huxley, M. N., 2001i:11107** *and* **2001m:11203**
Zheng, Zhiyong *see* **Cochrane, Todd, 2001g:11130**

11L99 None of the above, but in this section

Items with secondary classifications in 11L99

Belov, A. S. New examples of nonnegative trigonometric polynomials with integer coefficients. (Russian. English and Russian summaries) **2001e:42002**
Elliott, P. D. T. A. Products of shifted primes: multiplicative analogues of Goldbach's problem. **2001b:11081**
Miller, Allen R. m-dimensional lattice sums of generalized hypergeometric functions. (English summary) **2001m:33040**

11Mxx Zeta and L-functions: analytic theory

Items with secondary classifications in 11Mxx

Davenport, Harold ★ Multiplicative number theory. (English summary) **2001f:11001**
(Montgomery, Hugh L.) *see* **Davenport, Harold, 2001f:11001**

11M06 $\zeta(s)$ and $L(s,\chi)$

Adamchik, V. S. *see* **Srivastava, Hari M. et al., 2001g:11136**
Aguilar S., Enrique (*with* Rivera F., Antonio) Divergence of Riemann series. (Spanish. Spanish summary) **2001f:11142**
Amigó, J. M. Some integral expressions for Riemann's zeta series with odd exponents. (English summary) **2001c:11090**
Balasubramanian, Ramachandran (*with* Ramachandra, Kanakanahalli; Sankaranarayanan, Ayyadurai; Srinivas, Kotyada) Notes on the Riemann zeta-function. III, IV. (English summary) **2001e:11090**
Balazard, Michel (*with* Ivić, Aleksandar) The mean square of the logarithm of the zeta-function. (English summary) **2001b:11072**
Borwein, Jonathan M. (*with* Bradley, David M.; Crandall, Richard E.) Computational strategies for the Riemann zeta function. (English summary) **2001h:11110**
Borwein, Peter B. An efficient algorithm for the Riemann zeta function. (English summary) **2001f:11143**
Bradley, David M. *see* **Borwein, Jonathan M. et al., 2001h:11110**
Choi, Junesang *see* **Park, Keun Saeng, 2001e:11092**
Chowla, P. (*with* Chowla, Sarvadaman) Series for $\zeta(3)$ and $\eta(2)$. (English summary)
Chowla, Sarvadaman *see* **Chowla, P.**
Crandall, Richard E. *see* **Borwein, Jonathan M. et al., 2001h:11110**
Culp-Ressler, Wendell (*with* Pribitkin, Wladimir de Azevedo) A note on Siegel's proof of Hamburger's theorem. **2001h:11111**
— (*with* Flood, Kevin; Heath, Ann; Pribitkin, Wladimir de Azevedo) On solutions to Riemann's functional equation. (English summary) **2001a:11145**
Dang, Si Shan (*with* Li, Guo Xing) Summation formulas for three types of series involving the Riemann zeta function. (Chinese. English and Chinese summaries) **2001j:11080**
Flood, Kevin *see* **Culp-Ressler, Wendell et al., 2001a:11145**
Glasser, M. L. *see* **Srivastava, Hari M. et al., 2001g:11136**
Heath, Ann *see* **Culp-Ressler, Wendell et al., 2001a:11145**
Huxley, M. N. (*with* Watt, N.) Hybrid bounds for Dirichlet's L-function. **2001i:11107**
Ivić, Aleksandar (*with* Jutila, Matti; Motohashi, Yoichi) The Mellin transform of powers of the zeta-function. **2001i:11108**
— On the integral of the error term in the fourth moment of the Riemann zeta-function. (English summary) **2001m:11144**
— *see also* **Balazard, Michel, 2001b:11072**
Jia, Pi Zhu An application of the special functions $\zeta(s)$ and $\zeta(s,a)$. (Chinese. English and Chinese summaries) **2001b:11073**
Jutila, Matti *see* **Ivić, Aleksandar et al., 2001i:11108**
Katsurada, Masanori (*with* Matsumoto, Kohji) A weighted integral approach to the mean square of Dirichlet L-functions. (English summary) **2001c:11091**
Kim, Tae-Kyun A note on the values of zeta.
Kiuchi, Isao (*with* Tanigawa, Yoshio) The mean value theorem of the Riemann zeta-function in the critical strip for short intervals. (English summary) **2001j:11081**
— (*with* Tanigawa, Yoshio) A mean value theorem for the approximate functional equation of $\zeta^2(s)$ for short intervals. **2001k:11159**
— On the mean value formula for the non-symmetric form of the approximate functional equation of $\zeta^2(s)$ in the critical strip. (English summary) **2001k:11160**
Knauf, Andreas Number theory, dynamical systems and statistical mechanics. (English summary) **2001j:11082**
Knopp, Marvin Isadore Hamburger's theorem on $\zeta(s)$ and the abundance principle for Dirichlet series with functional equations. **2001h:11112**
Kumagai, Hiroshi On rapidly convergent series expressions for zeta- and L-values. (*see* **2001f:11003**)
Laurinčikas, Antanas A remark on negative moments of the Riemann zeta function. (Russian. Russian and Lithuanian summaries) **2001k:11161**
Li, Guo Xing *see* **Dang, Si Shan, 2001j:11080**
Matsumoto, Kohji Recent developments in the mean square theory of the Riemann zeta and other zeta-functions. **2001j:11083**
— *see also* **Katsurada, Masanori, 2001c:11091**
Michel, Philippe (*with* Vanderkam, Jeffrey M.) Non-vanishing of high derivatives of Dirichlet L-functions at the central point. (English summary) **2001b:11074**
Mishou, Hidehiko Universality of L-functions that have characters of ideal class groups. (Japanese) (*see* **2001f:11003**)
Miyakoda, T. (*with* Nishimoto, Katsuyuki) Partial sums of zeta function. (English summary) **2001a:11146**
Motohashi, Yoichi *see* **Ivić, Aleksandar et al., 2001i:11108**
Nakaya, H. The mean square of the Dirichlet L-functions in the critical strip. (English and Lithuanian summaries) **2001m:11145**
Nishimoto, Katsuyuki Partial sums of Riemann's zeta function and their N-fractional calculus. (English summary) **2001a:11147**
— N-fractional calculus of $\zeta(z)$ and $\zeta(-z)$. (English summary) **2001a:11148**
— Some integral forms for Riemann's zeta function. (English summary) **2001e:11091**
— *see also* **Miyakoda, T., 2001a:11146**
Paris, R. B. New asymptotic formulas for the Riemann zeta function on the critical line. (English summary) **2001k:11162**
Park, Keun Saeng (*with* Choi, Junesang) The double gamma function with applications. (English summary) **2001e:11092**
Peter, Manfred Mean values of Dirichlet L-series. (English summary) **2001g:11134**
Pribitkin, Wladimir de Azevedo *see* **Culp-Ressler, Wendell et al., 2001a:11145** *and* **2001h:11111**
Pustyl'nikov, L. D. On the asymptotic behavior of the coefficients of the Taylor series of the function $\zeta(s)$. (Russian) **2001f:11144**
Ramachandra, Kanakanahalli (*with* Sankaranarayanan, Ayyadurai) Notes on the Riemann zeta-function. II. **2001a:11149**
— *see also* **Balasubramanian, Ramachandran et al., 2001e:11090**
Rivera F., Antonio *see* **Aguilar S., Enrique, 2001f:11142**
Sankaranarayanan, Ayyadurai *see* **Ramachandra, Kanakanahalli, 2001a:11149** *and* **Balasubramanian, Ramachandran et al., 2001e:11090**
Srinivas, Kotyada *see* **Balasubramanian, Ramachandran et al., 2001e:11090**
Srivastava, Hari M. (*with* Tsumura, Hirofumi) A certain class of rapidly convergent series representations for $\zeta(2n+1)$. (English summary) **2001f:11145**
— (*with* Tsumura, Hirofumi) New rapidly convergent series representations for $\zeta(2n+1)$, $L(2n,\chi)$ and $L(2n+1,\chi)$. (English summary) **2001g:11135**
— Some families of rapidly convergent series representations for the zeta functions. (English summary) **2001k:11163**
— (*with* Glasser, M. L.; Adamchik, V. S.) Some definite integrals associated with the Riemann zeta function. (English summary) **2001g:11136**
Tanigawa, Yoshio *see* **Kiuchi, Isao, 2001j:11081** *and* **2001k:11159**
Tsumura, Hirofumi *see* **Srivastava, Hari M., 2001f:11145** *and* **2001g:11135**
Vanderkam, Jeffrey M. *see* **Michel, Philippe, 2001b:11074**
Wang, Ke Cheng (*with* Zhang, Nan Yue) The function $\Phi(t)$ and some inequalities involving it. (Chinese. English and Chinese summaries) **2001b:11075**
Watt, N. *see* **Huxley, M. N., 2001i:11107**
Zaĭtsev, S. P. The omega theorem for the Riemann zeta function near the line $\mathrm{Re}\, s = 1$. (Russian. Russian summary) **2001e:11093**
Zhang, Nan Yue *see* **Wang, Ke Cheng, 2001b:11075**

Items with secondary classifications in 11M06

Balanzario, Eugenio P. Remark on Dirichlet series satisfying functional equations. (English and Spanish summaries) **2001k:11172**
Balasubramanian, Ramachandran (*with* Ramachandra, Kanakanahalli) The proof that certain functions are entire. II. (English summary)
Choi, Junesang (*with* Srivastava, Hari M.) Certain classes of series associated with the zeta function and multiple gamma functions. (English summary) **2001f:11147**
Conrey, J. Brian (*with* Iwaniec, Henryk) The cubic moment of central values of automorphic L-functions. **2001g:11070**
Cvijović, Djurdje (*with* Klinowski, Jacek) Finite cotangent sums and the Riemann zeta function. (English summary) **2001d:11082**
Das Gupta, Anirban Best constants in Chebyshev inequalities with various applications. (English summary) **2001m:60033**
van Frankenhuysen, Machiel *see* **Lapidus, Michel L., 2001b:11079**
Iwaniec, Henryk *see* **Conrey, J. Brian, 2001g:11070**
Kaczorowski, J. (*with* Perelli, Alberto) On the structure of the Selberg class. III. Sarnak's rigidity conjecture. **2001g:11140**
— (*with* Perelli, Alberto) On the structure of the Selberg class. II. Invariants and conjectures. **2001g:11139**
Karatsuba, E. A. Fast computation of the values of the Hurwitz zeta function and Dirichlet L-series. (Russian. Russian summary) **2001i:11152**
Kim, Yongsup Infinite series associated with psi and zeta functions. (English summary) **2001k:33002**
Klinowski, Jacek *see* **Cvijović, Djurdje, 2001d:11082**
Lapidus, Michel L. (*with* van Frankenhuysen, Machiel) ★ Fractal geometry and number theory. (English summary) **2001b:11079**
Lepowsky, James Vertex operator algebras and the zeta function. (English summary) **2001f:17056**
— Application of a "Jacobi identity" for vertex operator algebras to zeta values and differential operators. (English summary) **2001m:17037**
Murty, M. Ram (*with* Reece, Marilyn) A simple derivation of $\zeta(1-K) = -B_K/K$. **2001m:11154**
— ★ Problems in analytic number theory. (English summary) **2001k:11002**
Musès, C. Some new considerations on the Bernoulli numbers, the factorial function, and Riemann's zeta function. (English summary) **2001i:11023a**
— Erratum to: "Some new considerations on the Bernoulli numbers, the factorial function, and Riemann's zeta function". **2001i:11023b**
— Corrigendum to: "Some new considerations on the Bernoulli numbers, the factorial function, and Riemann's zeta function". **2001i:11023c**
Panzone, Pablo A. Combinatorial sums and series for the Riemann-Hurwitz function. II. (English summary) **2001g:11138**
Perelli, Alberto *see* **Kaczorowski, J., 2001g:11139** *and* **2001g:11140**
Puchta, Jan-Christoph On the class number of p-th cyclotomic field. (English summary) **2001a:11178**
Ramachandra, Kanakanahalli A remark on Perron's formula. (English summary) **2001a:11165**
— *see also* **Balasubramanian, Ramachandran**
Reece, Marilyn *see* **Murty, M. Ram, 2001m:11154**
Rivoal, Tanguy La fonction zêta de Riemann prend une infinité de valeurs irrationnelles aux entiers impairs. (English and French summaries) [There are infinitely many irrational values of the Riemann zeta function at odd integers] **2001k:11138**
Shail, R. A class of infinite sums and integrals. (English summary) **2001g:11195**
Srivastava, Hari M. Some simple algorithms for the evaluations and representations of the Riemann zeta function at positive integer arguments. (English summary) **2001h:11160**
— *see also* **Choi, Junesang, 2001f:11147**
Tăbîrcă, Sabin Some remarks concerning the Bernoulli numbers. (English summary) **2001k:11031**
Watt, N. On similar short sums. (English summary) **2001a:11144**
Wolke, D. On some Dirichlet series related to the Riemann zeta function. I. (English summary) **2001a:11157**
Xie, Min (*with* Zhang, Wen Peng) On the $2k$th mean value formula of general Dedekind sums. (Chinese. English and Chinese summaries) **2001m:11143**
Yi, Yuan (*with* Zhang, Wen Peng) The first power mean of Dirichlet L-functions with the weight of Gauss sums. (Chinese. English and Chinese summaries) **2001i:11106**
— *see also* **Zhang, Wen Peng, (2001f:11003)**
Zhang, Wen Peng (*with* Yi, Yuan) On the $2k$-th power mean of Dirichlet L-functions with the weight of general Kloosterman sums. (*see* **2001f:11003**)
— *see also* **Yi, Yuan, 2001i:11106** *and* **Xie, Min, 2001m:11143**

11M20 Real zeros of $L(s,\chi)$; results on $L(1,\chi)$

Codecà, Paolo (*with* Dvornicich, Roberto; Zannier, Umberto) Two problems related to the non-vanishing of $L(1,\chi)$. (English and French summaries) **2001m:11146**
Dvornicich, Roberto *see* **Codecà, Paolo et al., 2001m:11146**
Soundararajan, K. Nonvanishing of quadratic Dirichlet L-functions at $s=\frac{1}{2}$. **2001k:11164**
Zannier, Umberto *see* **Codecà, Paolo et al., 2001m:11146**

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Ash, Avner (*with* Gross, Robert) Generalized non-abelian reciprocity laws: a context for Wiles' proof. (English summary) **2001h:11142**
Gross, Robert *see* **Ash, Avner, 2001h:11142**
Özlük, A. E. (*with* Snyder, Chip) On the distribution of the nontrivial zeros of quadratic L-functions close to the real axis. **2001h:11116**
Snyder, Chip *see* **Özlük, A. E., 2001h:11116**
Yang, Tonghai Nonvanishing of central Hecke L-values and rank of certain elliptic curves. (English summary) **2001a:11093**

11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses

Báez-Duarte, Luis (*with* Balazard, Michel; Landreau, Bernard; Saias, Eric) Notes sur la fonction ζ de Riemann. III. (English summary) [Notes on the Riemann ζ-function. III] **2001j:11084**
Balazard, Michel (*with* Saias, Eric) The Nyman-Beurling equivalent form for the Riemann hypothesis. **2001i:11109**
— *see also* **Báez-Duarte, Luis et al., 2001j:11084**
Bartz, K. M. On some connections between zeta-zeros and 3-free integers. (English summary) **2001m:11147**
Bauer, Peter J. Zeros of Dirichlet L-series on the critical line. **2001h:11113**
Bays, Carter (*with* Ford, Kevin B.; Hudson, Richard H.; Rubinstein, Michael Oded) Zeros of Dirichlet L-functions near the real axis and Chebyshev's bias. (English summary) **2001m:11148**
Cheng, Yuanyou An explicit zero-free region for the Riemann zeta-function. (English summary) **2001k:11165**
Chernoff, Paul R. A pseudo zeta function and the distribution of primes. (English summary) **2001i:11110**
Cohen, Paula B. Quantum statistical mechanics and number theory. **2001b:11076**
Conrey, J. Brian (*with* Farmer, D. W.) Mean values of L-functions and symmetry. **2001i:11111**
— (*with* Li, Xian-Jin) A note on some positivity conditions related to zeta and L-functions. **2001h:11114**
Farmer, D. W. *see* **Conrey, J. Brian, 2001i:11111**
Ford, Kevin B. *see* **Bays, Carter et al., 2001m:11148**
Hejhal, Dennis A. On a result of Selberg concerning zeros of linear combinations of L-functions. **2001m:11149**
Hudson, Richard H. *see* **Bays, Carter et al., 2001m:11148**
Kanemitsu, Shigeru (*with* Yoshimoto, Masami) Euler products, Farey series and the Riemann hypothesis. (English summary) **2001h:11115**
Karatsuba, Anatolii A. The multidimensional Dirichlet divisor problem and zero free regions for the Riemann zeta function. (English summary) **2001m:11150**
Kumar, P. *see* **Prasad, S. N. et al., 2001g:11137**
Landreau, Bernard *see* **Báez-Duarte, Luis et al., 2001j:11084**
Languasco, Alessandro (*with* Perelli, Alberto) Pair correlation of zeros, primes in short intervals and exponential sums over primes. (English summary) **2001m:11151**
Li, Xian-Jin *see* **Conrey, J. Brian, 2001h:11114**
Maddaly, Krishna ξ–ζ relation. (English summary) **2001c:11092**
Mandal, S. K. *see* **Prasad, S. N. et al., 2001g:11137**
Özlük, A. E. (*with* Snyder, Chip) On the distribution of the nontrivial zeros of quadratic L-functions close to the real axis. **2001h:11116**
Perelli, Alberto *see* **Languasco, Alessandro, 2001m:11151**
Prasad, S. N. (*with* Mandal, S. K.; Kumar, P.) A series involving zeros of Riemann zeta function. **2001g:11137**
Rubinstein, Michael Oded *see* **Bays, Carter et al., 2001m:11148**
Saias, Eric *see* **Balazard, Michel, 2001i:11109** *and* **Báez-Duarte, Luis et al., 2001j:11084**
Snyder, Chip *see* **Özlük, A. E., 2001h:11116**
Tijdeman, Rob The Riemann hypothesis and the ABC conjecture. (Dutch. Dutch summary) **2001f:11146**
Varga, Richard S. Scientific computations related to the Riemann hypothesis. (*see* **2001f:65004**)
Vasyunin, V. I. On a system of step functions. (Russian. English and Russian summaries) **2001i:11112**
Wang, Tian Ze On zeros of Dirichlet L functions. (Chinese. English and Chinese summaries) **2001b:11077**
Yıldırım, Cem Yalçın Zeros of $\zeta''(s)$ & $\zeta'''(s)$ in $\sigma<\frac{1}{2}$. (English summary) **2001j:11085**
Yoshimoto, Masami Farey series and the Riemann hypothesis. IV. (English summary) **2001h:11117**
— *see also* **Kanemitsu, Shigeru, 2001h:11115**
Zaccagnini, Alessandro A conditional density theorem for the zeros of the Riemann zeta-function. **2001k:11166**

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Brüdern, Jörg (*with* Perelli, Alberto) Exponential sums of additive problems involving square-free numbers. (English summary) **2001m:11172**
Connes, Alain Trace formula on the adèle class space and Weil positivity. (English summary) **2001a:11185**
Greefrath, Gilbert Eisensteinreihen auf dem dreidimensionalen hyperbolischen Raum und Zetafunktionen. (German summary) [Eisenstein series in three-dimensional hyperbolic space and zeta functions] **2001k:11170**
Hafner, James Lee (*with* Stopple, Jeffrey) A heat kernel associated to Ramanujan's tau function. (English summary) **2001f:11149**
Hales, Thomas C. (*with* Sarnak, Peter; Pugh, M. C.) Advances in random matrix theory, zeta functions, and sphere packing. (English summary) **2001k:11121**
Jiang, Chun-Xuan Foundations of Santilli's isonumber theory. (English summary) **2001c:11109**
Kaczorowski, J. (*with* Languasco, Alessandro; Perelli, Alberto) A note on Landau's formula. (English summary) **2001m:11156**
Laeng, Enrico "Elementary" proofs and distribution of primes. (Italian) **2001f:11153**
Lagarias, Jeffrey C. Mathematical quasicrystals and the problem of diffraction. (English summary) **2001m:52032**
Languasco, Alessandro *see* **Kaczorowski, J. et al., 2001m:11156**
Lévay, Péter Chaotic Aharonov-Bohm scattering on surfaces of constant negative curvature. (English summary) **2001h:81082**
Li, Hongze The exceptional set of Goldbach numbers. **2001a:11172**
Lu, Wen Chao On the elementary proof of the prime number theorem with a remainder term. (English summary) **2001a:11155**
Meng, Zaizhao The distribution of the zeros of L-functions and the least prime in some arithmetic progression. (English summary) **2001k:11178**
Perelli, Alberto *see* **Kaczorowski, J. et al., 2001m:11156** *and* **Brüdern, Jörg, 2001m:11172**
Popov, A. Yu. The work of S. B. Stechkin on number theory. (Russian. English and Russian summaries) **2001g:11002**
Pugh, M. C. *see* **Hales, Thomas C. et al., 2001k:11121**
Ramachandra, Kanakanahalli Many famous conjectures on primes; meagre but precious progress of a deep nature. **2001b:11001**
Sarnak, Peter Quantum chaos, symmetry and zeta functions. Lecture I. Quantum chaos. **2001i:81096**
— Quantum chaos, symmetry and zeta functions. Lecture II. Zeta functions. **2001i:11114**
— *see also* **Hales, Thomas C. et al., 2001k:11121**
(Stechkin, Sergeĭ Borisovich) *see* **Popov, A. Yu., 2001g:11002**
Stopple, Jeffrey *see* **Hafner, James Lee, 2001f:11149**
Wolf, Marek Applications of statistical mechanics in number theory. (English summary) **2001h:11162**

11M35 Hurwitz and Lerch zeta functions

Alzer, Horst Inequalities for the Hurwitz zeta function. (English summary) **2001k:11167**
Choi, Junesang (*with* Srivastava, Hari M.) Certain classes of series associated with the zeta function and multiple gamma functions. (English summary) **2001f:11147**
Cvijović, Djurdje (*with* Klinowski, Jacek) A note on the Hurwitz zeta function. (English summary) **2001m:11152**
Gao, Li² (*with* Liu, Yan Jun; Zhao, Zheng) Two mean value formulae for the Hurwitz zeta function. (Chinese. English and Chinese summaries) **2001m:11153**
Garunkštis, R. (*with* Laurinčikas, Antanas) The Lerch zeta-function. (English summary) **2001k:11168**
Klinowski, Jacek *see* **Cvijović, Djurdje, 2001m:11152**
Laurinčikas, Antanas Effectivization of the universality theorem for the Lerch zeta function. (Russian. Russian and Lithuanian summaries) **2001k:11169**
— (*with* Matsumoto, Kohji) The joint universality and the functional independence for Lerch zeta-functions. (English summary) **2001d:11089**
— *see also* **Garunkštis, R., 2001k:11168**
Liu, Yan Jun *see* **Gao, Li² et al., 2001m:11153**
Matsumoto, Kohji *see* **Laurinčikas, Antanas, 2001d:11089**
Murty, M. Ram (*with* Reece, Marilyn) A simple derivation of $\zeta(1-K)=-B_K/K$. **2001m:11154**
Panzone, Pablo A. Combinatorial sums and series for the Riemann-Hurwitz function. II. (English summary) **2001g:11138**
Reece, Marilyn *see* **Murty, M. Ram, 2001m:11154**
Srivastava, Hari M. *see* **Choi, Junesang, 2001f:11147**
Zhao, Zheng *see* **Gao, Li² et al., 2001m:11153**

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Adamchik, V. S. A class of logarithmic integrals. (English summary) **2001k:33043**
Chowla, P. (*with* Chowla, Sarvadaman) Series for $\zeta(3)$ and $\eta(2)$. (English summary)
Chowla, Sarvadaman *see* **Chowla, P.**
Dobrovol'skiĭ, N. M. (*with* Roshchenya, A. L.) On the continuity of the hyperbolic zeta function of lattices. (Russian. English and Russian summaries) **2001d:11090**
Ishibashi, Makoto Multiple cotangent and generalized eta functions. (English summary) **2001j:11019**
Jia, Pi Zhu An application of the special functions $\zeta(s)$ and $\zeta(s,a)$. (Chinese. English and Chinese summaries) **2001b:11073**
Karatsuba, E. A. Fast computation of the values of the Hurwitz zeta function and Dirichlet L-series. (Russian. Russian summary) **2001i:11152**
Matsumoto, Kohji Recent developments in the mean square theory of the Riemann zeta and other zeta-functions. **2001j:11083**
Rebrova, I. Yu. Continuity of the generalized hyperbolic zeta function of lattices and its analytic continuation. (Russian. English and Russian summaries) **2001g:11142**
Roshchenya, A. L. *see* **Dobrovol'skiĭ, N. M., 2001d:11090**
Srivastava, Hari M. (*with* Tsumura, Hirofumi) A certain class of rapidly convergent series representations for $\zeta(2n+1)$. (English summary) **2001f:11145**
— Some formulas for the Bernoulli and Euler polynomials at rational arguments. (English summary) **2001f:11033**
Tsumura, Hirofumi *see* **Srivastava, Hari M., 2001f:11145**
Zhang, Wen Peng On the hybrid mean value of Dedekind sums and Hurwitz zeta-function. **2001f:11062**

11M36 Selberg zeta functions and regularized determinants; applications to spectral theory, Dirichlet series, Eisenstein series, etc. Explicit formulas

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Ramachandra, Kanakanahalli Notes on the prime number theorem. I. **2001d:11093**

11M99 None of the above, but in this section

Morgan, Dennis R. A remarkable sequence derived from Euler products. (English summary) **2001i:11115**

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Poonen, Bjorn *see* **Conrey, J. Brian et al., 2001h:11108**
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11Nxx Multiplicative number theory

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11N05 Distribution of primes

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Cao, Hui Zhong Estimates for certain sums involving reciprocals of the smallest prime factor of an integer. (Chinese. English and Chinese summaries) **2001m:11157**
Elliott, P. D. T. A. Products of shifted primes. Multiplicative analogues of Goldbach's problems. II. (English summary) **2001b:11082**
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Narkiewicz, Władysław ★ The development of prime number theory. (English summary) **2001c:11098**
Panaitopol, Laurenţiu On the inequality $\pi(x) > \frac{x}{\log x - 1}$. (English summary) **2001f:11154**
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Chernoff, Paul R. A pseudo zeta function and the distribution of primes. (English summary) **2001i:11110**
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Fouvry, Etienne Cinquante ans de théorie analytique des nombres. Un point de vue parmi d'autres: celui des méthodes de crible. [Fifty years of analytic number theory. One approach among others: sieve methods] **2001k:11181**
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Luca, Florian Equations involving arithmetic functions of factorials. (English and Spanish summaries) **2001f:11009**
Murty, M. Ram ★ Problems in analytic number theory. (English summary) **2001k:11002**
Panaitopol, Laurenţiu On a problem of Erdős-Turán. (English summary) **2001d:11010**
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Hooley, Christopher On the Barban-Davenport-Halberstam theorem. XII. **2001a:11160**
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Meng, Zaizhao The distribution of the zeros of L-functions and the least prime in some arithmetic progression. (English summary) **2001k:11178**
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11N25 Distribution of integers with specified multiplicative constraints

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Saias, Eric Entiers à diviseurs denses. II. (English summary) [Integers with dense divisors. II] **2001j:11087**
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— *see also* **Erdős, Paul[1], 2001b:11083**

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Balog, Antal (*with* Wooley, Trevor D.) Sums of two squares in short intervals. (English summary) **2001f:11156**
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Elliott, P. D. T. A. Products of shifted primes. Multiplicative analogues of Goldbach's problems. II. (English summary) **2001b:11082**
Flajolet, Philippe *see* **Panario, Daniel et al., 2001e:11119**
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Halberstam, Heini (*with* Hungerbühler, Norbert) On generalized Carmichael numbers. (English summary) **2001a:11011**
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Karatsuba, Anatolii A. The multidimensional Dirichlet divisor problem and zero free regions for the Riemann zeta function. (English summary) **2001m:11150**
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Panario, Daniel (*with* Gourdon, Xavier; Flajolet, Philippe) An analytic approach to smooth polynomials over finite fields. (English summary) **2001e:11119**
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Wooley, Trevor D. *see* **Brüdern, Jörg et al., 2001c:11113** *and* **Balog, Antal, 2001f:11156**
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Zhukova, A. A. Additive problems with numbers having a given number of prime divisors from progressions. (Russian. English and Russian summaries) **2001h:11131**

11N30 Turán theory [see also 30Bxx]

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Andersson, Johan Disproof of some conjectures of K. Ramachandra. **2001a:11152**

11N32 Primes represented by polynomials; other multiplicative structure of polynomial values

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Heath-Brown, D. R. The largest prime factor of $X^3 + 2$. **2001m:11158**
Tóth, Árpád Roots of quadratic congruences. **2001m:11159**

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Fouvry, Etienne Cinquante ans de théorie analytique des nombres. Un point de vue parmi d'autres: celui des méthodes de crible. [Fifty years of analytic number theory. One approach among others: sieve methods] **2001k:11181**
Ruzsa, Imre Z. *see* **Chen, Yong-Gao, 2001h:11002**

11N35 Sieves

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Jia, Chaohua The application of the combination of circle method and sieve method. (*see* **2001f:11003**)
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Smirnova, Kh. A. The analytic form of the sieve of Eratosthenes. (Russian. English and Russian summaries) **2001m:11011**

11N36 Applications of sieve methods

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Dartyge, Cécile (*with* Mauduit, Christian) Nombres presque premiers dont l'écriture en base r ne comporte pas certains chiffres. (English summary) [Almost prime numbers with missing digits in base r] **2001f:11157**
Elsholtz, Christian A remark on Hofmann and Wolke's additive decompositions of the set of primes. (English summary) **2001k:11180**
Fouvry, Etienne Cinquante ans de théorie analytique des nombres. Un point de vue parmi d'autres: celui des méthodes de crible. [Fifty years of analytic number theory. One approach among others: sieve methods] **2001k:11181**
Jia, Chaohua (*with* Liu, Ming-Chit) On the largest prime factor of integers. **2001h:11124**
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Meng, Zaizhao The function $d_k(n)$ at consecutive integers. (English summary) **2001f:11158**
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Vakhitova, E. V. On the one-dimensional Selberg sieve with Bukhshtab weights of a new type. (Russian. Russian summary) **2001f:11159**
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Balog, Antal (*with* Brüdern, Jörg; Wooley, Trevor D.) On smooth gaps between consecutive prime numbers. (English summary) **2001g:11143**
Brüdern, Jörg *see* **Balog, Antal et al., 2001g:11143**
Daniel, Stephan On the greatest prime divisor of the sum of two squares of primes. **2001e:11097**
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Hooley, Christopher On the Barban-Davenport-Halberstam theorem. XIII. **2001g:11145**
— On the rational points on cubic surfaces. (English summary) **2001e:11072**
— On binary cubic forms. II. **2001f:11161**
Iwaniec, Henryk *see* **Friedlander, John B., 2001a:11158**
Jensen, Erik (*with* Murty, M. Ram) Artin's conjecture for polynomials over finite fields. **2001h:11153**
Jia, Chaohua The application of the combination of circle method and sieve method. (*see* **2001f:11003**)
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Mikawa, Hiroshi On Goldbach numbers in arithmetic progressions. **2001m:11170**
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Murty, M. Ram *see* **Jensen, Erik, 2001h:11153**
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Wisdom, Joel M. On the representations of a number as the sum of three cubes and a fourth or fifth power. (English summary) **2001a:11058**
Wooley, Trevor D. *see* **Balog, Antal et al., 2001g:11143**

11N37 Asymptotic results on arithmetic functions

Boyarinov, R. N. On the asymptotic behavior of sums associated with Farey fractions. (Russian. Russian summary) **2001f:11160**
de la Bretèche, R. (*with* Tenenbaum, Gérald) Sur certaines équations fonctionnelles arithmétiques. (English and French summaries) [On some arithmetic functional equations] **2001m:11160**
Bui Minh Phong A characterization of some unimodular multiplicative functions. (English summary) **2001k:11182**
Calderón, Catalina (*with* de Velasco, M. J.) On divisors of a quadratic form. (English summary) **2001a:11161**
Cazaran, Jilyana *see* **Moree, Pieter, 2001c:11103**
Delange, Hubert Sur certaines séries entières particulières. [Some particular power series] **2001c:11102**
Elliott, P. D. T. A. The multiplicative group of rationals generated by the shifted primes. II. **2001b:11085**
Faĭnleĭb, A. S. *see* **Tulyaganova, M. I., 2001j:11091**
Furuya, Jun Mean square of an error term related to a certain exponential sum involving the divisor function. (English summary) **2001a:11162**
Gao, Li[2] (*with* Zhao, Zhen[4]; Wang, Hui[1]) The distribution property of D. H. Lehmer numbers. (Chinese. English and Chinese summaries) **2001e:11098**
Gediri, Kh. An asymptotic formula for the sum of values of the divisor function. (Russian. English and Russian summaries) **2001j:11089**
Hooley, Christopher On binary cubic forms. II. **2001f:11161**
Hwang, Hsien-Kuei Distribution of the number of factors in random ordered factorizations of integers. (English summary) **2001k:11183**
Khripunova, M. B. The degrees of the number of prime divisors and the number of divisors of consecutive numbers. (Russian. English and Russian summaries) **2001a:11163**
Kühleitner, Manfred On sums of two kth powers: an asymptotic formula for the mean square of the error term. **2001a:11164**
Lucht, Lutz G. (*with* Schmalmack, Anke) Polylogarithms and arithmetic function spaces. **2001i:11116**
Moree, Pieter (*with* Cazaran, Jilyana) On a claim of Ramanujan in his first letter to Hardy. (English summary) **2001c:11103**
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Panaitopol, Laurenţiu On Erdős-Prachar theorem. (English summary) **2001k:11184**
Pavlov, A. I. On the Ingham divisor problem. (Russian. Russian summary) **2001m:11162**
Ramachandra, Kanakanahalli A remark on Perron's formula. (English summary) **2001a:11165**
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Shapiro, Harold N. (*with* Sparer, Gerson H.) A divisibility theorem for factorials. **2001k:11185**
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Tóth, László Asymptotic formulae concerning arithmetical functions defined by cross-convolutions. VIII. On the product and the quotient of $\sigma_{A,s}$ and $\varphi_{A,s}$. (English summary) **2001j:11090**
Tulyaganova, M. I. (*with* Faĭnleĭb, A. S.) Upper bounds for sums of multiplicative functions. (Russian. English and Uzbek summaries) **2001j:11091**
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Yokota, Hisashi Erratum: "The largest integer expressible as a sum of reciprocal of integers" [J. Number Theory **76** (1999), no. 2, 206–216; MR 2000i:11146]. **2001f:11162**
Yu, Gang[1] On the number of divisors of the quadratic form $m^2 + n^2$. (English summary) **2001f:11162**
Zhai, Wenguang On sums and differences of two coprime kth powers. **2001b:11086**
— On three-dimensional divisor problem of (a, a, b) type. (English and Chinese summaries) **2001g:11150**
— Number of $\mathscr{B}$-free numbers in short intervals. (English summary) **2001f:11163**
Zhang, Yi Ran Estimates for sums involving the smallest prime factor of an integer. (Chinese. English and Chinese summaries) **2001c:11104**
Zhao, Zhen[4] *see* **Gao, Li[2] et al., 2001e:11098**
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Bachman, Gennady Exponential sums with multiplicative coefficients. (English summary) **2001a:11142**
Balog, Antal (*with* Wooley, Trevor D.) Sums of two squares in short intervals. (English summary) **2001f:11156**
Bartz, K. M. On some connections between zeta-zeros and 3-free integers. (English summary) **2001m:11147**
de la Bretèche, R. Répartition des diviseurs dans les progressions arithmétiques. (English summary) [Distribution of divisors in arithmetical progressions] **2001c:11101**
Elliott, P. D. T. A. Products of shifted primes. Multiplicative analogues of Goldbach's problems. II. (English summary) **2001b:11082**
Erdős, Paul[1] (*with* Tenenbaum, Gérald) Ensembles de multiples de suites finies. (English summary) [Sets of multiples of finite sequences] **2001b:11083**
Fomenko, O. M. Distribution of lattice points on a four-dimensional sphere. (Russian. Russian summary) **2001b:11088**
Ford, Kevin B. The number of solutions of $\varphi(x) = m$. (English summary) **2001e:11099**
Hooley, Christopher On the Barban-Davenport-Halberstam theorem. XII. **2001a:11160**
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Jenkner, Wolfgang Asymptotic aspects of the Diophantine equation $p^k x^{nk} - z^k = l$. **2001a:11048**
Kanemitsu, Shigeru (*with* Kuzumaki, Takako; Yoshimoto, Masami) Some sums involving Farey fractions. II. (English summary) **2001h:11021**
Karatsuba, Anatoliĭ A. Character sums with weights. (Russian. Russian summary) **2001d:11087**
Kubilius, Jonas On some results in probabilistic number theory. (English summary) **2001d:11081**
Kuzumaki, Takako *see* **Kanemitsu, Shigeru et al., 2001h:11021**
Lucht, Lutz G. Polylogarithms and arithmetic functions. (English summary) **2001g:11107**
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Sargos, Patrick (*with* Wu, Jie[1]) Multiple exponential sums with monomials and their applications in number theory. (English summary) **2001m:11141**
Tenenbaum, Gérald *see* **Erdős, Paul[1], 2001b:11083**
Tsang, Kai-Man Counting lattice points in the sphere. (English summary) **2001h:11129**
Vakhitova, E. V. On the one-dimensional Selberg sieve with Bukhshtab weights of a new type. (Russian. Russian summary) **2001f:11159**
Wooley, Trevor D. *see* **Balog, Antal, 2001f:11156**
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Yi, Yuan *see* **Zhang, Wen Peng, 2001f:11064**
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Zhai, Wenguang On the k-dimensional Piatetski-Shapiro prime number theorem. (English summary) **2001c:11099**
Zhang, Wen Peng On the hybrid mean value of Dedekind sums and Hurwitz zeta-function. **2001f:11062**
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— (*with* Yi, Yuan) On the $2m$-th power mean of certain Hardy sums. (English summary) **2001f:11064**
Zhukova, A. A. Additive problems with numbers having a given number of prime divisors from progressions. (Russian. English and Russian summaries) **2001h:11131**

11N45 Asymptotic results on counting functions for algebraic and topological structures

Warlimont, Richard On the distribution of the degrees of prime element factors in additive arithmetical semigroups. (English summary) **2001i:11117**
Zhai, Wenguang On the average number of unitary factors of finite abelian groups. II. (English summary) **2001j:11092**

Items with secondary classifications in 11N45

Cao, Xiao Dong[1] (*with* Zhai, Wenguang) Multiple exponential sums with monomials. **2001d:11083**
Dubickas, Artūras On the number of polynomials of small house. (English and Lithuanian summaries) **2001d:11027**
Noorani, Mohd. Salmi Md. Mertens theorem and closed orbits of ergodic toral automorphisms. (English summary) **2001k:37036**
Szucs, Joseph M. The asymptotic numbers of certain kinds of regular toroidal maps. (English summary) **2001b:05112**
Zhai, Wenguang *see* **Cao, Xiao Dong[1], 2001d:11083**

11N56 Rate of growth of arithmetic functions

Konyagin, Sergei V. Estimates of the least prime factor of a binomial coefficient. (English summary) **2001h:11125**
Le, Mao Hua (*with* Li, Zhong[3]) On a problem of Makowski and Schinzel. (Chinese. English and Chinese summaries) **2001f:11164**
Li, Zhong[3] *see* **Le, Mao Hua, 2001f:11164**

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Hooley, Christopher On the Barban-Davenport-Halberstam theorem. XII. **2001a:11160**
— On the Barban-Davenport-Halberstam theorem. XI. **2001a:11159**
— On the Barban-Davenport-Halberstam theorem. XIII. **2001g:11145**
Meng, Zaizhao The function $d_k(n)$ at consecutive integers. (English summary) **2001f:11158**
Moree, Pieter On primes in arithmetic progression having a prescribed primitive root. (English summary) **2001i:11118**

Nicolas, Jean-Louis (*with* Terjanian, Guy) Une majoration de la longueur des polynômes cyclotomiques. (English summary) [Upper bound for the length of cyclotomic polynomials] **2001a:11197**
Protasov, Vladimir Asymptotics of the partition function. (Russian. Russian summary) **2001h:11134**
Tâbîrcă, Sabin (*with* Tabirca, Tatiana) Erdős-Smarandache numbers. (English summary)
Tabirca, Tatiana *see* **Tâbîrcă, Sabin**
Terjanian, Guy *see* **Nicolas, Jean-Louis, 2001a:11197**

11N60 Distribution functions associated with additive and positive multiplicative functions

Finch, Steven R. The average value of the Smarandache function. (*see* **2001d:11004**)
Ford, Kevin B. The number of solutions of $\varphi(x) = m$. (English summary) **2001e:11099**

Items with secondary classifications in 11N60

de la Bretèche, R. (*with* Tenenbaum, Gérald) Sur certaines équations fonctionnelles arithmétiques. (English and French summaries) [On some arithmetic functional equations] **2001m:11160**
Kubilius, Jonas On some results in probabilistic number theory. (English summary) **2001d:11081**
Li, Shu Guang Artin's conjecture on average for composite moduli. (English summary) **2001h:11127**
Tenenbaum, Gérald *see* **de la Bretèche, R., 2001m:11160**

11N64 Other results on the distribution of values or the characterization of arithmetic functions

Bui Minh Phong *see* **Kátai, Imre, 2001f:11165** *and* **2001h:11126**
Ford, Kevin B. The normal behavior of the Smarandache function. (*see* **2001d:11004**)
Granville, Andrew (*with* Selfridge, John L.) Product of integers in an interval, modulo squares. (English summary) **2001k:11186**
Iwaszkiewicz-Rudoszańska, Anna On the distribution of prime divisors in arithmetical semigroups. (English summary) **2001e:11100**
Kátai, Imre (*with* Bui Minh Phong) A characterization of n^s as a multiplicative function. (English summary) **2001f:11165**
— (*with* Bui Minh Phong) On some pairs of multiplicative functions correlated by an equation. II. (English summary) **2001h:11126**
Konyagin, Sergei V. (*with* Mauduit, Christian; Sárközy, András) On the number of prime factors of integers characterized by digit properties. (English summary) **2001k:11187**
Mauclaire, Jean-Loup A characterization of some additive arithmetical functions. III. **2001g:11152**
Mauduit, Christian *see* **Konyagin, Sergei V. et al., 2001k:11187**
Mikawa, Hiroshi Least primes in arithmetic progressions. (Japanese) (*see* **2001f:11003**)
Ruzsa, Imre Z. Additive functions with monotonic norm. (English summary) **2001e:11101**
Sárközy, András *see* **Konyagin, Sergei V. et al., 2001k:11187**
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Bourgain, Jean On triples in arithmetic progression. **2001h:11132**
de la Bretèche, R. (*with* Tenenbaum, Gérald) Sur certaines équations fonctionnelles arithmétiques. (English and French summaries) [On some arithmetic functional equations] **2001m:11160**
Bui Minh Phong A characterization of some unimodular multiplicative functions. (English summary) **2001k:11182**
Flammenkamp, A. (*with* Luca, Florian) Infinite families of noncototients. (English summary) **2001k:11008**
Ford, Kevin B. The number of solutions of $\varphi(x) = m$. (English summary) **2001e:11099**
Jia, Chaohua (*with* Liu, Ming-Chit) On the largest prime factor of integers. **2001h:11124**
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Luca, Florian *see* **Flammenkamp, A., 2001k:11008**
Martin, Greg Denser Egyptian fractions. **2001m:11040**
Sárközy, András (*with* Stewart, C. L.) On prime factors of integers of the form $ab + 1$. (English summary) **2001g:11148**
Stewart, C. L. *see* **Sárközy, András, 2001g:11148**
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11N69 Distribution of integers in special residue classes

Cobeli, Cristian (*with* Vâjâitu, M.; Zaharescu, Alexandru) The sequence $n!$ (mod p). (English summary) **2001g:11153**
Holt, Abigail The distribution of generalized sum-of-digits functions in residue classes. (English summary) **2001a:11166**
Karatsuba, Anatolii A. (*with* Novak, B.) Arithmetic problems with numbers of a special type. (Russian) **2001e:11102**
Kurlberg, Pär The distribution of spacings between quadratic residues. II. (English summary) **2001m:11163**
Li, Shu Guang Artin's conjecture on average for composite moduli. (English summary) **2001h:11127**
Moree, Pieter On primes in arithmetic progression having a prescribed primitive root. (English summary) **2001i:11118**
— (*with* Stevenhagen, Peter) A two-variable Artin conjecture. (English summary) **2001k:11188**
Novak, B. *see* **Karatsuba, Anatolii A., 2001e:11102**
Stevenhagen, Peter *see* **Moree, Pieter, 2001k:11188**
Vâjâitu, M. *see* **Cobeli, Cristian et al., 2001g:11153**
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Items with secondary classifications in 11N69

Karatsuba, Anatolii A. Regular sets modulo a given number. (Russian. Russian summary) **2001m:11136**
Moree, Pieter Asymptotically exact heuristics for (near) primitive roots. (English summary) **2001m:11161**

11N75 Applications of automorphic functions and forms to multiplicative problems [see also 11Fxx]

Ichihara, Yumiko The evaluation of the sum over arithmetic progressions for the coefficients of the Rankin-Selberg series. (Japanese) (*see* **2001f:11003**)

Items with secondary classifications in 11N75

Alvarez-Parrilla, Alvaro Asymptotic relations among Fourier coefficients of real-analytic Eisenstein series. (English summary) **2001g:11061**
Fomenko, O. M. Distribution of lattice points on a four-dimensional sphere. (Russian. Russian summary) **2001b:11088**

11N80 Generalized primes and integers

Balazard, Michel La version de Diamond de la méthode de l'hyperbole de Dirichlet. [Diamond's version of the Dirichlet hyperbola method] **2001a:11167**

Items with secondary classifications in 11N80

Porubský, Štefan Topologies induced by systems of divisors. (English summary) **2001g:11026**

11N99 None of the above, but in this section

Codecà, Paolo (*with* Nair, Mohan) A note on a result of Bateman and Chowla. **2001d:11096**
Montgomery, Hugh L. (*with* Vaaler, Jeffrey D.) A further generalization of Hilbert's inequality. (English summary) **2001c:11105**
Nair, Mohan *see* **Codecà, Paolo, 2001d:11096**
Vaaler, Jeffrey D. *see* **Montgomery, Hugh L., 2001c:11105**

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Berrizbeitia, Pedro (*with* Elliott, P. D. T. A.) Product bases for the rationals. (English summary) **2001b:11069**
Elliott, P. D. T. A. *see* **Berrizbeitia, Pedro, 2001b:11069**

11Pxx Additive number theory; partitions

11P05 Waring's problem and variants

Brüdern, Jörg (*with* Wooley, Trevor D.) On Waring's problem: two cubes and seven biquadrates. **2001k:11189**
— (*with* Wooley, Trevor D.) On Waring's problem for cubes and smooth Weyl sums. **2001j:11093**
Bufetov, A. I. (*with* Kanel', A. Ya.) A new elementary solution of the Waring problem. (Russian. English and Russian summaries) **2001f:11166**
Choudhry, Ajai On sums of seventh powers. (English summary) **2001f:11167**
Ford, Kevin B. Waring's problem with polynomial summands. **2001f:11168**
Golubeva, E. P. Waring's problem for six cubes and higher powers. (Russian. Russian summary) **2001d:11097**
Kanel', A. Ya. *see* **Bufetov, A. I., 2001f:11166**
Kawada, Koichi Topics in Waring's problem for fourth powers. II. (Japanese) (*see* **2001f:11003**)
Nesterenko, Yu. V. On a Hilbert identity. (Russian. Russian summary) **2001f:11169**
Vaughan, R. C. (*with* Wooley, Trevor D.) Further improvements in Waring's problem. IV. Higher powers. **2001g:11154**
Winterhof, Arne A note on Waring's problem in finite fields. **2001m:11164**
Wooley, Trevor D. Sums and differences of two cubic polynomials. (English summary) **2001a:11168**
— *see also* **Vaughan, R. C., 2001g:11154**; **Brüdern, Jörg, 2001j:11093** *and* **2001k:11189**

Items with secondary classifications in 11P05

Brüdern, Jörg (*with* Perelli, Alberto; Wooley, Trevor D.) Twins of k-free numbers and their exponential sum. **2001c:11113**
Gallardo, Luis On the restricted Waring problem over $\mathbf{F}_2$-$[t]$. **2001e:11123**
Liu, Jianya (*with* Zhan, Tao) Hua's theorem on prime squares in short intervals. (English summary) **2001m:11169**
Parsell, Scott T. Multiple exponential sums over smooth numbers. (English summary) **2001m:11140**
Perelli, Alberto *see* **Brüdern, Jörg et al., 2001c:11113**
Ren, Xiumin The Waring-Goldbach problem for cubes. **2001g:11157**
Vinnik, P. M. *see* **Vostokov, S. V., 2001a:11057**
Vostokov, S. V. (*with* Vinnik, P. M.) Computation of the number of representations of elements of the field GF(p) as the sum of lth powers. (Russian. English and Russian summaries) **2001a:11057**
Wisdom, Joel M. On the representations of a number as the sum of three cubes and a fourth or fifth power. (English summary) **2001a:11058**
Wooley, Trevor D. *see* **Brüdern, Jörg et al., 2001c:11113**
Zhan, Tao *see* **Liu, Jianya, 2001m:11169**

11P21 Lattice points in specified regions

Arnol'd, V. I. Weak asymptotics of the numbers of solutions of Diophantine equations. (Russian) **2001k:11190**

Beck, Matthias Counting lattice points by means of the residue theorem. (English summary) **2001k:11191**
Bentkus, V. (*with* Götze, Friedrich) Lattice point problems and distribution of values of quadratic forms. (English summary) **2001b:11087**
Bilu, Yuri F. (*with* Stoll, Thomas; Tichy, Robert F.) Octahedrons with equally many lattice points. (English summary) **2001k:11192**
Boca, Florin P. (*with* Cobeli, Cristian; Zaharescu, Alexandru) Distribution of lattice points visible from the origin. (English summary) **2001j:11094**
Bruggeman, Roelof W. (*with* Maitello, R. J.; Wallach, N. R.) Resolvent and lattice points on symmetric spaces of strictly negative curvature. (English summary) **2001f:11170**
Cobeli, Cristian *see* **Boca, Florin P. et al., 2001j:11094**
Ewell, John A. Counting lattice points on spheres. **2001h:11128**
Fomenko, O. M. Distribution of lattice points on a four-dimensional sphere. (Russian. Russian summary) **2001b:11088**
Götze, Friedrich *see* **Bentkus, V., 2001b:11087**
Granville, Andrew (*with* Jiménez-Urroz, Jorge) The least common multiple and lattice points on hyperbolas. (English summary) **2001f:11171**
Jiménez-Urroz, Jorge *see* **Granville, Andrew, 2001f:11171**
Knoth, Ingo Gitterpunkte in ellipsoiden. [Lattice points in ellipsoids] **2001f:11172**
Krätzel, Ekkehard Lattice points in super spheres. (English summary) **2001c:11106**
— Lattice points in three-dimensional convex bodies. **2001f:11173**
Kuba, Gerald On the circle problem with polynomial weight. (English summary) **2001e:11103**
— On the distribution of squares of integral quaternions. **2001m:11165**
Kühleitner, Manfred On lattice points in rational ellipsoids: an omega estimate for the error term. **2001k:11193**
— Lattice points in bodies of revolution in $\mathbf{R}^3$: an Ω_--estimate for the error term. (English summary) **2001a:11169**
— (*with* Nowak, Werner Georg) The asymptotic behaviour of the mean-square of fractional part sums. (English summary) **2001m:11166**
Maitello, R. J. *see* **Bruggeman, Roelof W. et al., 2001f:11170**
Moshchevitina, L. A. On lattice points in polygons. (Russian) **2001c:11107**
Müller, Helmut (*with* Nowak, Werner Georg) Potenzen von Gaußschen ganzen Zahlen in Quadraten. [Powers of Gaussian integers in squares] **2001b:11089**
Müller, Wolfgang² Lattice points in large convex bodies. (English summary) **2001b:11090**
Nowak, Werner Georg *see* **Müller, Helmut, 2001b:11089** *and* **Kühleitner, Manfred, 2001m:11166**
Peter, Manfred The local contribution of zeros of curvature to lattice point asymptotics. (English summary) **2001m:11167**
Popov, D. A. On the number of lattice points in three-dimensional bodies of revolution. (Russian. Russian summary) **2001g:11155**
Skriganov, M. M. Ergodic theory on SL(n), Diophantine approximations and anomalies in the lattice point problem. **2001a:11170**
— (*with* Starkov, A. N.) On logarithmically small errors in the lattice point problem. (English summary) **2001j:11095**
Starkov, A. N. *see* **Skriganov, M. M., 2001j:11095**
Stoll, Thomas *see* **Bilu, Yuri F. et al., 2001k:11192**
Tichy, Robert F. *see* **Bilu, Yuri F. et al., 2001k:11192**
Tsang, Kai-Man Counting lattice points in the sphere. (English summary) **2001h:11129**
Uhrin, Béla The inner periodic structure of a function. (English summary) **2001m:11168**
Wallach, N. R. *see* **Bruggeman, Roelof W. et al., 2001f:11170**
Zaharescu, Alexandru *see* **Boca, Florin P. et al., 2001j:11094**

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Abdurazakov, Kh. Kh. (*with* Shushbaev, S. Sh.) On the number of integer points on perfect ellipsoids. (Russian. English and Uzbek summaries) **2001k:11058**
Bárány, Imre (*with* Kantor, Jean-Michel) Universal counting of lattice points in polytopes. (English summary) **2001e:52021**
Huxley, M. N. The integer points close to a curve. III. **2001a:11117**
— The rational points close to a curve. II. **2001k:11132**
— (*with* Watt, N.) The number of ideals in a quadratic field. II. (English summary) **2001m:11203**
Jenkner, Wolfgang Asymptotic aspects of the Diophantine equation $p^k x^{nk} - z^k = 1$. **2001a:11048**
Kantor, Jean-Michel *see* **Bárány, Imre, 2001e:52021**
Kontsevich, Maxim (*with* Sukhov, Yu. M.) Statistics of Klein polyhedra and multidimensional continued fractions. (English summary) **2001h:11101**
Shushbaev, S. Sh. *see* **Abdurazakov, Kh. Kh., 2001k:11058**
Sukhov, Yu. M. *see* **Kontsevich, Maxim, 2001h:11101**
Watt, N. *see* **Huxley, M. N., 2001m:11203**
Zhai, Wenguang On sums and differences of two coprime kth powers. **2001b:11086**

11P32 Goldbach-type theorems; other additive questions involving primes

Allakov, I. A. On the representation of even numbers by the sum of two odd prime numbers in an arithmetic progression. (Russian) **2001k:11194**
Bauer, Claus On the exceptional set for the sum of a prime and the k-th power of a prime. **2001f:11174**
Bazzanella, Danilo (*with* Languasco, Alessandro) On the asymptotic formula for Goldbach numbers in short intervals. **2001j:11096**
Cai, Ying Chun On a Diophantine inequality involving prime numbers. III. (English summary) **2001c:11108b**
— A Diophantine inequality with prime variables. III. (Chinese. English and Chinese summaries) **2001c:11108a**
Chèn', Chzhun-I On the cardinality of the singular set in a binary additive problem with prime numbers on short intervals. (Russian. Russian summary) **2001e:11104**
Fatkina, S. Yu. On the representation of a positive integer by the sum of three almost equal summands generated by prime numbers. (Russian) **2001a:11171**
Jiang, Chun-Xuan Foundations of Santilli's isonumber theory. (English summary) **2001c:11109**
Languasco, Alessandro Some refinements of error terms estimates for certain additive problems with primes. (English summary) **2001h:11130**
— *see also* **Bazzanella, Danilo, 2001j:11096**
Leyendekkers, J. V. (*with* Shannon, Anthony G.) The Goldberg-conjecture primes within a modular ring. (English summary) [The Goldbach conjecture: primes within a modular ring] **2001k:11195**
Li, Hongze The exceptional set of Goldbach numbers. **2001a:11172**
— The exceptional set of Goldbach numbers. II. **2001c:11110**
Liu, Jianya (*with* Zhan, Tao) Hua's theorem on prime squares in short intervals. (English summary) **2001m:11169**
— (*with* Liu, Ming-Chit) The exceptional set in the four prime squares problem. (English summary) **2001i:11119**
— (*with* Liu, Ming-Chit) Representation of even integers as sums of squares of primes and powers of 2. (English summary) **2001g:11156**
Liu, Ming-Chit *see* **Liu, Jianya, 2001g:11156** *and* **2001i:11119**
Mikawa, Hiroshi On Goldbach numbers in arithmetic progressions. **2001m:11170**
Peneva, T. P. On the ternary Goldbach problem with primes p_i such that $p_i + 2$ are almost-primes. (English summary) **2001d:11098**
— On the exceptional set in Goldbach's problem. (*see* **2001f:11003**)
Ren, Xiumin The Waring-Goldbach problem for cubes. **2001g:11157**
Shannon, Anthony G. *see* **Leyendekkers, J. V., 2001k:11195**
Tolev, D. I. Representations of large integers as sums of two primes of special type. (English summary) **2001j:11097**
— Additive problems with prime numbers of special type. **2001m:11171**
Vinogradov, A. I. Binary problems. Spectral approach. II. (Russian. English and Russian summaries) **2001c:11111**
— Binary problems. Spectral approach. III. (Russian. English and Russian summaries) **2001c:11112**
Yang, Qi Bin Probabilistic analysis of Goldbach conjecture. (Chinese summary)
Zhan, Tao *see* **Liu, Jianya, 2001m:11169**
Zhukova, A. A. Additive problems with numbers having a given number of prime divisors from progressions. (Russian. English and Russian summaries) **2001h:11131**

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Bratus, Sergey (*with* Pak, Igor) Fast constructive recognition of a black box group isomorphic to S_n or A_n using Goldbach's conjecture. (English summary) **2001c:11137**
Deshouillers, Jean-Marc (*with* te Riele, H. J. J.) On the probabilistic complexity of numerically checking the binary Goldbach conjecture in certain intervals. (English summary) **2001k:11263**
Ford, Kevin B. (*with* Halberstam, H.) The Brun-Hooley sieve. **2001d:11095**
Halberstam, H. *see* **Ford, Kevin B., 2001d:11095**
Hsu, Chih-Nung Diophantine inequalities for polynomial rings. (English summary) **2001f:11175**
Jia, Chaohua The application of the combination of circle method and sieve method. (*see* **2001f:11003**)
Kumchev, A. Diophantine approximation by cubes of primes and an almost prime. (English summary) **2001k:11052**
Pak, Igor *see* **Bratus, Sergey, 2001c:11137**
Patson, Noel Interesting property observed in the prime numbers. **2001m:11010**
Popov, O. V. Arithmetic applications for estimates for Weyl sums of polynomials of growing degree. (Russian. English and Russian summaries) **2001h:11109**
Ramachandra, Kanakanahalli Many famous conjectures on primes; meagre but precious progress of a deep nature. **2001b:11001**
te Riele, H. J. J. *see* **Deshouillers, Jean-Marc, 2001k:11263**
Wang, Yong Hui Some exponential sums over primes over an arithmetic progression. (Chinese. English and Chinese summaries) **2001f:11138**
Zhukova, A. A. The Hardy-Littlewood problem. (Russian) **2001g:11151**

11P55 Applications of the Hardy-Littlewood method [see also 11D85]

Bourgain, Jean On triples in arithmetic progression. **2001h:11132**
Brüdern, Jörg (*with* Perelli, Alberto) Exponential sums of additive problems involving square-free numbers. (English summary) **2001m:11172**
— (*with* Perelli, Alberto; Wooley, Trevor D.) Twins of k-free numbers and their exponential sum. **2001c:11113**
— Binary additive problems, multiplicative sequences, and the Bateman-Horn conjecture. (*see* **2001f:11003**)
Hsu, Chih-Nung Diophantine inequalities for polynomial rings. (English summary) **2001f:11175**
Jia, Chaohua The application of the combination of circle method and sieve method. (*see* **2001f:11003**)
Mendès France, Michel (*with* Sebbar, Ahmed) Pliages de papiers, fonctions thêta et méthode du cercle. [Paper foldings, theta functions and the circle method] **2001f:11176**
Perelli, Alberto *see* **Brüdern, Jörg et al., 2001c:11113** *and* **2001m:11172**
Sebbar, Ahmed *see* **Mendès France, Michel, 2001f:11176**
Wooley, Trevor D. *see* **Brüdern, Jörg et al., 2001c:11113**

Items with secondary classifications in 11P55

Bauer, Claus On the exceptional set for the sum of a prime and the k-th power of a prime. **2001f:11174**
Bazzanella, Danilo (*with* Languasco, Alessandro) On the asymptotic formula for Goldbach numbers in short intervals. **2001j:11096**
Brüdern, Jörg The Davenport-Heilbronn Fourier transform method, and some Diophantine inequalities. (English summary) **2001b:11026**
— (*with* Wooley, Trevor D.) On Waring's prob¦em: two cubes and seven biquadrates. **2001k:11189**

— (*with* Wooley, Trevor D.) On Waring's problem for cubes and smooth Weyl sums. **2001j:11093**
Cai, Ying Chun On a Diophantine inequality involving prime numbers. III. (English summary) **2001c:11108b**
— A Diophantine inequality with prime variables. III. (Chinese. English and Chinese summaries) **2001c:11108a**
Fatkina, S. Yu. On the representation of a positive integer by the sum of three almost equal summands generated by prime numbers. (Russian) **2001a:11171**
Ford, Kevin B. Waring's problem with polynomial summands. **2001f:11168**
Freeman, D. Eric On positive definite quadratic forms. (English summary) **2001k:11051**
Hooley, Christopher On the Barban-Davenport-Halberstam theorem. XII. **2001a:11160**
— On the Barban-Davenport-Halberstam theorem. XI. **2001a:11159**
Languasco, Alessandro *see* **Bazzanella, Danilo, 2001j:11096**
Li, Hongze The exceptional set of Goldbach numbers. II. **2001c:11110**
Liu, Jianya (*with* Zhan, Tao) Hua's theorem on prime squares in short intervals. (English summary) **2001m:11169**
— (*with* Liu, Ming-Chit) The exceptional set in the four prime squares problem. (English summary) **2001i:11119**
— (*with* Liu, Ming-Chit) Representation of even integers as sums of squares of primes and powers of 2. (English summary) **2001g:11156**
Liu, Ming-Chit *see* **Liu, Jianya, 2001g:11156** *and* **2001i:11119**
Parsell, Scott T. The density of rational lines on cubic hypersurfaces. (English summary) **2001j:11010**
— Multiple exponential sums over smooth numbers. (English summary) **2001m:11140**
Ren, Xiumin The Waring-Goldbach problem for cubes. **2001g:11157**
Stein, Elias M. (*with* Wainger, Stephen) Discrete analogues in harmonic analysis. II. Fractional integration. **2001g:42038**
Vaughan, R. C. (*with* Wooley, Trevor D.) Further improvements in Waring's problem. IV. Higher powers. **2001g:11154**
Wainger, Stephen *see* **Stein, Elias M., 2001g:42038**
Wooley, Trevor D. Quasi-diagonal behaviour and smooth Weyl sums. (English summary) **2001f:11137**
— *see also* **Vaughan, R. C., 2001g:11154; Brüdern, Jörg, 2001j:11093** *and* **2001k:11189**
Zhan, Tao *see* **Liu, Jianya, 2001m:11169**

11P70 Inverse problems of additive number theory

Caldeira, Cristina (*with* Dias da Silva, José) The invariant polynomials degrees of the Kronecker sum of two linear operators and additive theory. (English summary) **2001j:11098**
Dias da Silva, José *see* **Caldeira, Cristina, 2001j:11098**
Fainleib, A. S. On sumsets in Euclidean space. (English summary) **2001f:11177**
Hamidoune, Yahya Ould (*with* Rødseth, Øystein J.) An inverse theorem mod p. **2001c:11114**
— Some results in additive number theory. I. The critical pair theory. **2001m:11173**
Rødseth, Øystein J. *see* **Hamidoune, Yahya Ould, 2001c:11114**
Serra, Oriol (*with* Zémor, Gilles) On a generalization of a theorem by Vosper. (English summary) **2001f:11178**
Zémor, Gilles *see* **Serra, Oriol, 2001f:11178**

Items with secondary classifications in 11P70

Lev, Vsevolod F. Restricted set addition in groups. II. A generalization of the Erdős-Heilbronn conjecture. (English summary) **2001g:11025**
— Restricted set addition in groups. I. The classical setting. (English summary) **2001g:11024**
Schoen, Tomasz On the density of sets containing no three distinct numbers with all their sums. (English summary) **2001h:11010**
Thangadurai, R. Some direct and inverse problems in additive number theory. **2001b:11010**

11P81 Elementary theory of partitions [see also 05A17]

Adiga, Chandrashekar *see* **Bhargava, Srinivasamurthy et al., 2001e:11105**
Alladi, Krishnaswami A fundamental but unexploited partition invariant. (English summary) **2001a:11173**
Bhargava, Srinivasamurthy (*with* Adiga, Chandrashekar; Somashekara, D. D.) Number of representations of an integer as a sum of a square and five times a square. (English summary) **2001e:11105**
Burde, Dietrich Estimates on binomial sums of partition functions. (English summary) **2001m:11174**
Ewell, John A. Recursive determination of the enumerator for sums of three squares. (English summary) **2001i:11120**
Fuchs, Dmitry On the removal of parentheses, on Euler, Gauss, and MacDonald, and on missed opportunities [Kvant **1981**, no. 8, 12–20]. (*see* **2001b:00011**)
He, Wen Jie *see* **Wang, Li Xin[1] et al., 2001k:11199**
Hirschhorn, Michael D. Some formulae for partitions into squares. (English summary) **2001k:11196**
Iacobescu, Fanel Smarandache partition type and other sequences. (English summary) (*see* **2001d:11005**)
Mi, Hong Hai *see* **Wang, Li Xin[1] et al., 2001k:11199**
Mondek, Paulo *see* **Santos, José Plínio De O., 2001k:11197** *and* **2001k:11198**
Murthy, Amarnath Generalization of partition function, introducing Smarandache factor partition. (*see* **2001d:11005**)
Robbins, Neville On partitions and cyclotomic polynomials. (English summary) **2001g:11158**
Santos, José Plínio De O. (*with* Mondek, Paulo) A family of partitions with attached parts and "N copies of N". (English summary) **2001k:11197**
— (*with* Mondek, Paulo) On partitions with difference conditions. (English summary) **2001k:11198**
Shen, Yu Fa *see* **Wang, Li Xin[1] et al., 2001k:11199**
Somashekara, D. D. *see* **Bhargava, Srinivasamurthy et al., 2001e:11105**
Vainshtein, F. V. Partitions of integers [Kvant **1988**, no. 11/12, 19–25]. (*see* **2001b:00011**)
Wang, Li Xin[1] (*with* He, Wen Jie; Yu, Xin Kai; Shen, Yu Fa; Mi, Hong Hai) The m-partition of a positive integer and its application. (Chinese. English and Chinese summaries) **2001k:11199**
Yu, Xin Kai *see* **Wang, Li Xin[1] et al., 2001k:11199**

Items with secondary classifications in 11P81

Andrews, George E. (*with* Knopfmacher, Arnold; Paule, Peter) An infinite family of Engel expansions of Rogers-Ramanujan type. (English summary) **2001h:11023**
— Three-quadrant Ferrers graphs. (English summary) **2001i:05157**
Berkovich, Alexander (*with* McCoy, Barry M.) The perturbation $\varphi_{2,1}$ of the $M(p, p+1)$ models of conformal field theory and related polynomial-character identities. (English summary) **2001m:81259**
Bressoud, David M. Elementary proofs of identities for Schur functions and plane partitions. (English summary) **2001d:05194**
Ewell, John A. Counting lattice points on spheres. **2001h:11128**
Hirschhorn, Michael D. (*with* Sellers, James A.) Some relations for partitions into four squares. **2001k:11201**
Ismail, Mourad El-Houssieny (*with* Prodinger, Helmut; Stanton, Dennis W.) Schur's determinants and partition theorems. (English summary) **2001d:05010**
Knopfmacher, Arnold *see* **Andrews, George E. et al., 2001h:11023**
Lewis, Richard P. (*with* Liu, Zhi-Guo) A conjecture of Hirschhorn on the 4-dissection of Ramanujan's continued fraction. (English summary) **2001m:11014**
Liu, Zhi-Guo *see* **Lewis, Richard P., 2001m:11014**
McCoy, Barry M. *see* **Berkovich, Alexander, 2001m:81259**
Nathanson, Melvyn B. N-graphs, modular Sidon and sum-free sets, and partition identities. (English summary) **2001c:05011**
Paule, Peter *see* **Andrews, George E. et al., 2001h:11023**
Prodinger, Helmut *see* **Ismail, Mourad El-Houssieny et al., 2001d:05010**
Sellers, James A. *see* **Hirschhorn, Michael D., 2001k:11201**
Stanton, Dennis W. *see* **Ismail, Mourad El-Houssieny et al., 2001d:05010**
Yang, Winston C. Derivatives are essentially integer partitions. (English summary) **2001k:05020**

11P82 Analytic theory of partitions

Ahlgren, Scott Non-vanishing of the partition function modulo odd primes l. (English summary) **2001h:11133**
Bell, Jason P. A proof of a partition conjecture of Bateman and Erdős. (English summary) **2001m:11175**
Farkas, Hershel M. (*with* Kra, Irwin) Partitions and theta constant identities. **2001g:11159**
Hahn, Sang Geun *see* **Kim, Jun Kyo, 2001a:11174**
Kim, Jun Kyo (*with* Hahn, Sang Geun) Recursive formulae for the multiplicative partition function. (English summary) **2001a:11174**
Kra, Irwin *see* **Farkas, Hershel M., 2001g:11159**
Nathanson, Melvyn B. Asymptotic density and the asymptotics of partition functions. (English summary) **2001b:11091**
Nicolas, Jean-Louis (*with* Sárközy, András) On the asymptotic behaviour of general partition functions. (English summary) **2001c:11115**
Pribitkin, Wladimir de Azevedo Revisiting Rademacher's formula for the partition function $p(n)$. (English summary) **2001m:11176**
Protasov, Vladimir Asymptotics of the partition function. (Russian. Russian summary) **2001h:11134**
Sárközy, András *see* **Nicolas, Jean-Louis, 2001c:11115**
Yakubovich, Yu. V. The central limit theorem for normalized Young diagrams of partitions into different summands. (Russian. English and Russian summaries) **2001b:11092**

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Andrews, George E. Stacked lattice boxes. (English summary) **2001g:11039**
Arnol'd, V. I. Weak asymptotics of the numbers of solutions of Diophantine equations. (Russian) **2001k:11190**
Hirschhorn, Michael D. Winquist and the Atkin-Swinnerton-Dyer partition congruences for modulus 11. (English summary) **2001k:11202**
Mitsui, Takayoshi On certain multiple series with functional equation in a totally imaginary number field. II. **2001h:11121**
Mutafchiev, L. R. Large distinct part sizes in a random integer partition. (English summary) **2001j:05010**

11P83 Partitions; congruences and congruential restrictions

Ahlgren, Scott Distribution of the partition function modulo composite integers M. **2001j:11099**
Alladi, Krishnaswami Reformulations of a partition theorem of Göllnitz and q-series identities. (English summary) **2001f:11179**
Andrews, George E. Schur's theorem, partitions with odd parts and the Al-Salam-Carlitz polynomials. (English summary) **2001g:11160**
— (*with* Lewis, Richard P.) The ranks and cranks of partitions moduli 2, 3, and 4. (English summary) **2001k:11200**
Cooper, Shaun (*with* Hirschhorn, Michael D.; Lewis, Richard P.) Powers of Euler's product and related identities. (English summary) **2001g:11161**
Eriksson, Nicholas q-series, elliptic curves, and odd values of the partition function. (English summary) **2001a:11175**
Getz, Jayce On congruence properties of the partition function. (English summary) **2001c:11116**
Hirschhorn, Michael D. An identity of Ramanujan, and applications. **2001f:11180**
— (*with* Sellers, James A.) Some relations for partitions into four squares. **2001k:11201**
— Winquist and the Atkin-Swinnerton-Dyer partition congruences for modulus 11. (English summary) **2001k:11202**
— Parity results for certain partition functions. (English summary) **2001i:11121**

— *see also* **Cooper, Shaun et al., 2001g:11161**
Lewis, Richard P. *see* **Cooper, Shaun et al., 2001g:11161** *and* **Andrews, George E., 2001k:11200**
Mondek, Paulo *see* **Santos, José Plínio De O., 2001b:11093**
Rødseth, Øystein J. (*with* Sellers, James A.) On m-ary partition function congruences: a fresh look at a past problem. (English summary) **2001m:11177**
Santos, José Plínio De O. (*with* Mondek, Paulo) Extending theorems of Göllnitz, a new family of partition identities. (English summary) **2001b:11093**
Sellers, James A. *see* **Hirschhorn, Michael D., 2001k:11201** *and* **Rødseth, Øystein J., 2001m:11177**
Soundararajan, T. ★ A theorem of Ramanujan on $p(5m+4)$. **2001c:11117**

Items with secondary classifications in 11P83

Ahlgren, Scott Non-vanishing of the partition function modulo odd primes l. (English summary) **2001h:11133**
Dolph, Laura L. (*with* Reynolds, Annmarie; Sellers, James A.) Congruences for a restricted m-ary partition function. (English summary) **2001a:05012**
Foda, Omar (*with* Welsh, Trevor A.) On the combinatorics of Forrester-Baxter models. (English summary) **2001g:82027**
Nathanson, Melvyn B. N-graphs, modular Sidon and sum-free sets, and partition identities. (English summary) **2001c:05011**
Reynolds, Annmarie *see* **Dolph, Laura L. et al., 2001a:05012**
Robbins, Neville On t-core partitions. **2001e:05012**
Sakai, Koukichi On generative numbers. (English summary) **2001g:11027**
Sellers, James A. *see* **Dolph, Laura L. et al., 2001a:05012**
Welsh, Trevor A. *see* **Foda, Omar, 2001g:82027**

11P99 None of the above, but in this section

Items with secondary classifications in 11P99

Hirschhorn, Michael D. Partial fractions and four classical theorems of number theory. **2001f:11054**
Morgan, Dennis R. A remarkable sequence derived from Euler products. (English summary) **2001i:11115**
Rankin, R. A. Sums of squares: an elementary method. **2001k:11062**

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

Koch, Helmut ★ Number theory. (English summary) **2001a:11176**
(Kramer, David) *see* **Koch, Helmut, 2001a:11176**
Sury, B. Introduction to number fields. **2001k:11203**

11R04 Algebraic numbers; rings of algebraic integers

Broberg, Niklas Some examples related to the *abc*-conjecture for algebraic number fields. (English summary) **2001a:11177**
Dubickas, Artūras Totally real algebraic integers in small intervals. (English and Lithuanian summaries) **2001k:11204**
Hémard, Denis Corps de nombres d'indice divisible par un entier donné, dans [sans] facteur carré. (English summary) [Number fields with index divisible by a given integer without square factor] **2001d:11099**
Laššák, Miroslav Wilson's theorem in algebraic number fields. (English summary) **2001g:11162**
Li, Jia Kun (*with* Zhang, Xin Hua; Shan, Zun) The number of elements of order d modulo an ideal. (Chinese. English and Chinese summaries) **2001k:11205**
Nakahara, Toru *see* **Shah, Syed Inayat Ali, 2001m:11178**
Shah, Syed Inayat Ali (*with* Nakahara, Toru) Non-monogenetic aspect of the ring of integers in certain abelian fields. **2001m:11178**
— Monogenesis of the rings of integers in a cyclic sextic field of a prime conductor. (English summary) **2001d:11100**
Shan, Zun *see* **Li, Jia Kun et al., 2001k:11205**
Sorensen, Claus Mazanti On the structure of $(\mathcal{O}_K/I)^\times$. (English summary) **2001j:11100**
Zhang, Xin Hua *see* **Li, Jia Kun et al., 2001k:11205**

Items with secondary classifications in 11R04

Coykendall, Jim A remark on arithmetic equivalence and the normset. **2001e:11110**
Dumont, Jean Marie (*with* Grabner, Peter J.; Thomas, Alain) Distribution of the digits in the expansions of rational integers in algebraic bases. (English summary) **2001f:11132**
Elsner, Carsten (*with* Sander, J. W.) On the distribution of residue classes of quadratic forms and integer-detecting sequences in number fields. (English summary) **2001h:11144**
Grabner, Peter J. *see* **Dumont, Jean Marie et al., 2001f:11132**
Lemmermeyer, Franz ★ Reciprocity laws. (English summary) **2001i:11009**
Martinet, Jacques On successive minima of rings of algebraic integers. (English summary) **2001b:11063**
Nakahara, Toru *see* **Shah, Syed Inayat Ali, 2001m:11187**
Piazza, Paola Egor Ivanovich Zolotarev and the theory of ideal numbers for algebraic number fields. **2001e:11002**
Sander, J. W. *see* **Elsner, Carsten, 2001h:11144**
Shah, Syed Inayat Ali (*with* Nakahara, Toru) Non-monogenesis of the ring of integers in a sextic field of a prime conductor. **2001m:11187**
Thomas, Alain *see* **Dumont, Jean Marie et al., 2001f:11132**
Voloch, José Felipe Elliptic Wieferich primes. **2001g:11088**
(Zolotarev, Egor Ivanovich) *see* **Piazza, Paola, 2001e:11002**

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Biography:
Zolotarev, Egor Ivanovich *see* **Piazza, Paola, 2001e:11002**

11R06 PV-numbers and generalizations; other special algebraic numbers

Akiyama, Shigeki Self affine tiling and Pisot numeration system. (English summary) **2001b:11094**
— On tiling through 2-dimensional normal number systems. (Japanese. Japanese summary) (*see* **2001f:11003**)
Burdík, Čestmír (*with* Frougny, Christiane; Gazeau, Jean-Pierre; Krejcar, Rudolf) Beta-integers as a group. (English summary) **2001k:11206**
Doche, Christophe On the spectrum of the Zhang-Zagier height. (English summary) **2001f:11181**
Dubickas, Artūras On the measure of a nonreciprocal algebraic number. (English summary) **2001i:11122**
Frougny, Christiane *see* **Burdík, Čestmír et al., 2001k:11206**
Gazeau, Jean-Pierre *see* **Burdík, Čestmír et al., 2001k:11206**
Krejcar, Rudolf *see* **Burdík, Čestmír et al., 2001k:11206**
Luca, Florian On a question of G. Kuba. (English summary) **2001b:11095**
McKee, James Families of Pisot numbers with negative trace. **2001b:11096**
Rumely, Robert The Fekete-Szegő theorem with splitting conditions. I. **2001i:11123**
Zaïmi, Toufik Sur les nombres de Pisot totalement réels. (English summary) [On totally real Pisot numbers] **2001b:11098**
— Note on totally real Pisot-numbers in the successive derived sets of Pisot-numbers. (English summary) **2001b:11097**

Items with secondary classifications in 11R06

Akiyama, Shigeki Cubic Pisot units with finite beta expansions. (English summary) **2001i:11095**
Bès, Alexis An extension of the Cobham-Semënov theorem. (English summary) **2001i:03083**
Chaladus, S. (*with* Schinzel, Andrzej) On a linear Diophantine equation. **2001e:11026**
Ito, Shunji On periodic expansions of cubic numbers and Rauzy fractals. (English summary) **2001k:11016**
— *see also* **Sano, Yuki, (2001f:11003)**
Masáková, Zuzana (*with* Patera, Jiří; Pelantová, Edita) Lattice-like properties of quasicrystal models with quadratic irrationalities. (English summary) (*see* **2001e:81005**)
Patera, Jiří *see* **Masáková, Zuzana et al., (2001e:81005)**
Pelantová, Edita *see* **Masáková, Zuzana et al., (2001e:81005)**
Peres, Yuval (*with* Schlag, Wilhelm; Solomyak, Boris) Sixty years of Bernoulli convolutions. (English summary) **2001m:42020**
Sano, Yuki (*with* Ito, Shunji) On periodic β-expansions of Pisot numbers and Rauzy fractals. (Japanese. Japanese summary) (*see* **2001f:11003**)
Schinzel, Andrzej *see* **Chaladus, S., 2001e:11026**
Schlag, Wilhelm *see* **Peres, Yuval et al., 2001m:42020**
Solomyak, Boris *see* **Peres, Yuval et al., 2001m:42020**
Watanabe, Toshiro Continuity properties of distributions with some decomposability. (English summary) **2001g:60042**

11R09 Polynomials (irreducibility, etc.)

Dubickas, Artūras On certain geometric mean of the values of a polynomial. (English and Lithuanian summaries) **2001m:11179**
Schinzel, Andrzej Reducibility of lacunary polynomials. XII. **2001b:11099**
— ★ Polynomials with special regard to reducibility. (English summary) **2001h:11135**
— On reducible trinomials. II. (English summary) **2001k:11207**
Spearman, Blair K. (*with* Williams, Kenneth S.) Quartic trinomials with Galois groups A_4 and V_4. (English summary) **2001g:11163**
Williams, Kenneth S. *see* **Spearman, Blair K., 2001g:11163**
(Zannier, Umberto) *see* **Schinzel, Andrzej, 2001h:11135**

Items with secondary classifications in 11R09

Ayad, Mohamed (*with* McQuillan, Donald L.) Irreducibility of the iterates of a quadratic polynomial over a field. **2001c:11031**
Everest, Graham (*with* Pinner, Christopher G.) Corrigendum: "Bounding the elliptic Mahler measure. II" [J. London Math. Soc. (2) **58** (1998), no. 1, 1–8; MR 2000a:11099]. **2001g:11103**
Filaseta, M. (*with* Ford, Kevin B.; Konyagin, Sergei V.) On an irreducibility theorem of A. Schinzel associated with coverings of the integers. (English summary) **2001g:11032**
Ford, Kevin B. *see* **Filaseta, M. et al., 2001g:11032**
Halter-Koch, Franz (*with* Narkiewicz, Władysław) Scarcity of finite polynomial orbits. (English summary) **2001h:11028**
Konyagin, Sergei V. *see* **Filaseta, M. et al., 2001g:11032**
McQuillan, Donald L. *see* **Ayad, Mohamed, 2001c:11031**
Narkiewicz, Władysław *see* **Halter-Koch, Franz, 2001h:11028**
Nicolas, Jean-Louis (*with* Terjanian, Guy) Une majoration de la longueur des polynômes cyclotomiques. (English summary) [Upper bound for the length of cyclotomic polynomials] **2001a:11197**
Pinner, Christopher G. *see* **Everest, Graham, 2001g:11103**
Poulakis, Dimitrios Sur la réduction modulo p des courbes algébriques lisses. (French summary) [Reduction modulo p of smooth algebraic curves] **2001j:14041**
Terjanian, Guy *see* **Nicolas, Jean-Louis, 2001a:11197**
Thangadurai, R. On the coefficients of cyclotomic polynomials. **2001k:11213**
Yakovleva, A. A. On an embedding problem. (Russian. English and Russian summaries) **2001b:11102**

11R11 Quadratic extensions

Cavallar, Stefania (*with* Lemmermeyer, Franz) Euclidean windows. (English summary) **2001m:11180**
Kihel, Omar Sur une conjecture de Wolfgang M. Ruppert. (English and French summaries) [On a conjecture of Wolfgang M. Ruppert] **2001g:11164**

Komatsu, Toru Third-order unramified cyclic expansions for real quadratic fields. (Japanese) (*see* **2001h:00016**)
Lemmermeyer, Franz *see* **Cavallar, Stefania, 2001m:11180**
Sairaiji, Fumio (*with* Shimizu, Kenichi) A note on Ono's numbers associated to imaginary quadratic fields. (English summary) **2001m:11181**
Shimizu, Kenichi *see* **Sairaiji, Fumio, 2001m:11181**
Thakur, Dinesh S. Quadratic and cyclotomic fields. **2001k:11208**
Tsvetkov, V. M. A simple example of extensions without an integral basis. (Russian. English and Russian summaries)
Urbanowicz, Jerzy (*with* Williams, Kenneth S.) ★ Congruences for L-functions. (English summary) **2001k:11209**
Wang, Kunpeng (*with* Zhang, Xianke) Fundamental unit system and class number for real number fields of type $(2, 2, 2)$. (English summary) **2001g:11165**
Williams, Kenneth S. *see* **Urbanowicz, Jerzy, 2001k:11209**
Zhang, Xianke *see* **Wang, Kunpeng, 2001g:11165**

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(Belabas, Karim) *see* **Browkin, Jerzy, 2001a:11189**
Benjamin, Elliot On the second Hilbert 2-class field of real quadratic number fields with 2-class group isomorphic to $(2, 2^n)$, $n \geq 2$. (English summary) **2001a:11180**
Browkin, Jerzy Computing the tame kernel of quadratic imaginary fields. (English summary) **2001a:11189**
Burger, Edward B. (*with* van der Poorten, Alfred J.) On periods of elements from real quadratic number fields. **2001f:11112**
Cao, Zhen Fu (*with* Dong, Xiao Lei) Diophantine equations and class numbers of imaginary quadratic fields. (English summary) **2001k:11222**
— *see also* **Dong, Xiao Lei**
Chen, Hong Ji On the cyclic subgroups of the ideal class group of $\mathbf{Q}(\sqrt{4k^{2n}+1})$. (Chinese. English and Chinese summaries) **2001e:11107**
— *see also* **Le, Mao Hua, 2001e:11108**
Chen, Yen-Mei J. (*with* Kitaoka, Yoshiyuki; Yu, Jing) Distribution of units of real quadratic number fields. (English summary) **2001k:11230**
Chowla, P. (*with* Chowla, Sarvadaman) Criterion for the class-number of some real quadratic fields to be 1.
— (*with* Chowla, Sarvadaman) Criteria for the class-number of quadratic fields to be 1, etc. (English summary)
Chowla, Sarvadaman *see* **Chowla, P.**
Dong, Xiao Lei (*with* Cao, Zhen Fu) A new and brief proof of the divisibility of class numbers of a kind of imaginary quadratic field. (Chinese. English and Chinese summaries)
— *see also* **Cao, Zhen Fu, 2001k:11222**
Faisant, Alain Interprétation factorielle du nombre de classes dans les ordres des corps quadratiques. (French summary) [Factorial interpretation of the class number in orders of quadratic fields] **2001j:11103**
(Gangl, Herbert) *see* **Browkin, Jerzy, 2001a:11189**
Granville, Andrew (*with* Mollin, R. A.; Williams, Hugh C.) An upper bound on the least inert prime in a real quadratic field. (English summary) **2001d:11123**
Grytczuk, Aleksander (*with* Luca, Florian; Wójtowicz, Marek) The negative Pell equation and Pythagorean triples. (English summary) **2001c:11033**
Huxley, M. N. (*with* Watt, N.) The number of ideals in a quadratic field. II. (English summary) **2001m:11203**
Ichimura, Humio A note on unramified quadratic extensions over algebraic number fields. (English summary) **2001k:11223**
Jakubec, Stanislav Connection between Schinzel's conjecture and divisibility of the class number h_p^+. **2001c:11122**
Kim, Daeyeoul *see* **Park, Hwasin et al., 2001h:11139**
Kishi, Yasuhiro A constructive approach to Spiegelung relations between 3-ranks of absolute ideal class groups and congruent ones modulo $(3)^2$ in quadratic fields. **2001h:11137**
Kitaoka, Yoshiyuki The distribution of the units of real quadratic fields. (Japanese) (*see* **2001f:11003**)
— *see also* **Chen, Yen-Mei J. et al., 2001k:11230**
Komatsu, Toru A family of infinite pairs of quadratic fields $\mathbf{Q}(\sqrt{D})$ and $\mathbf{Q}(\sqrt{-D})$ whose class numbers are both divisible by 3. **2001m:11195**
Le, Mao Hua (*with* Chen, Hong Ji) An upper bound for class numbers of real quadratic fields $\mathbf{Q}(\sqrt{p})$ with $p \equiv 3 \pmod 4$. (Chinese. English and Chinese summaries) **2001e:11108**
Lemmermeyer, Franz A note on Pépin's counterexamples to the Hasse principle for curves of genus 1. (English summary) **2001i:11030**
Luca, Florian *see* **Grytczuk, Aleksander et al., 2001c:11033**
Matsui, Hajime A bound for the least Gaussian prime ω with $\alpha < \arg(\omega) < \beta$. (English summary) **2001d:11111**
Mollin, R. A. (*with* van der Poorten, Alfred J.) Continued fractions, Jacobi symbols, and quadratic Diophantine equations. (English summary) **2001a:11049**
— Fundamental units and continued fractions. **2001d:11106**
— *see also* **Granville, Andrew et al., 2001d:11123**
Park, Hwasin (*with* Park, Joongsoo; Kim, Daeyeoul) Certain real quadratic fields with class number 7, 9, 11, 13. (English summary) **2001h:11139**
Park, Joongsoo *see* **Park, Hwasin et al., 2001h:11139**
van der Poorten, Alfred J. (*with* te Riele, H. J. J.; Williams, Hugh C.) Computer verification of the Ankeny-Artin-Chowla conjecture for all primes less than 100 000 000 000. (English summary) **2001j:11125**
— *see also* **Mollin, R. A., 2001a:11049** *and* **Burger, Edward B., 2001f:11112**
te Riele, H. J. J. *see* **van der Poorten, Alfred J. et al., 2001j:11125**
Rifà, Josep (*with* Villanueva, M.) Euclidean complex quadratic fields used for coding QAM signals. (English summary) **2001f:11199**
Roskam, Hans Erratum: "A quadratic analogue of Artin's conjecture on primitive roots" [J. Number Theory **81** (2000), no. 1, 93–109; MR 2000k:11128]. **2001m:11202**
Soundararajan, K. Divisibility of class numbers of imaginary quadratic fields. **2001i:11128**
Sueyoshi, Yutaka Relations between the narrow 4-class ranks of quadratic number fields. **2001f:11187**
— On Rédei matrices with minimal rank. (English summary) **2001k:11225**
Sun, Ailing The Tate kernel of the number field $\mathbf{Q}(\sqrt{-3})$. (English and Chinese summaries) **2001a:19003**
Villanueva, M. *see* **Rifà, Josep, 2001f:11199**
Watt, N. *see* **Huxley, M. N., 2001m:11203**
Williams, Hugh C. *see* **Granville, Andrew et al., 2001d:11123** *and* **van der Poorten, Alfred J. et al., 2001j:11125**
Wójtowicz, Marek *see* **Grytczuk, Aleksander et al., 2001c:11033**
Yu, Jing *see* **Chen, Yen-Mei J. et al., 2001k:11230**
Yue, Qin 2-Sylow subgroups of K_2O_F for real quadratic field and class group for imaginary quadratic field. **2001e:11113**

11R16 Cubic and quartic extensions

Azizi, Abdelmalek (*with* Lamjoun, R.) Les corps $\mathbf{Q}(\sqrt{-p_0}, \sqrt{d})$ dont les 2-groupes de classes sont de Klein, avec $p_0 \equiv 1 \pmod 4$, premier. (French summary) [Fields $\mathbf{Q}[\sqrt{-p_0}, \sqrt{d}]$ with Klein 2-class groups, with $p_0 \equiv 1 \pmod 4$ prime] **2001c:11118**
Gaál, István (*with* Pohst, Michael E.) Computing power integral bases in quartic relative extensions. (English summary) **2001i:11124**
— Power integral bases in cubic relative extensions. (English summary) **2001m:11182**
Huard, James G. (*with* Spearman, Blair K.; Williams, Kenneth S.) A short proof of the formula for the conductor of an abelian cubic field. (English summary)
Hwang, Hyung Ju *see* **Kim, Hyun Kwang, 2001k:11210**
Kim, Hyun Kwang (*with* Hwang, Hyung Ju) Values of zeta functions and class number 1 criterion for the simplest cubic fields. (English summary) **2001k:11210**
Lamjoun, R. *see* **Azizi, Abdelmalek, 2001c:11118**
Ou, Zhiming M. (*with* Williams, Kenneth S.) On the density of cyclic quartic fields. (English summary) **2001m:11183**
Pohst, Michael E. *see* **Gaál, István, 2001i:11124**
Spearman, Blair K. *see* **Huard, James G. et al.**
Williams, Kenneth S. *see* **Ou, Zhiming M., 2001m:11183** *and* **Huard, James G. et al.**

Items with secondary classifications in 11R16

Cavallar, Stefania (*with* Lemmermeyer, Franz) Euclidean windows. (English summary) **2001m:11180**
Kim, Jung Soo Efficient computation of rank of elliptic curves using hyperelliptic curves associated with the simplest cubic fields. (English summary) **2001j:11036**
Kishi, Yasuhiro A constructive approach to Spiegelung relations between 3-ranks of absolute ideal class groups and congruent ones modulo $(3)^2$ in quadratic fields. **2001h:11137**
Lemmermeyer, Franz *see* **Cavallar, Stefania, 2001m:11180**
Murabayashi, Naoki (*with* Umegaki, Atsuki) Determination of all $\mathbf{Q}$-rational CM-points in the moduli space of principally polarized abelian surfaces. (English summary) **2001m:14066**
Nakahara, Toru *see* **Shah, Syed Inayat Ali, 2001m:11178**
Scheidler, R. Purely cubic complex function fields with small units. **2001g:11178**
Shah, Syed Inayat Ali (*with* Nakahara, Toru) Non-monogenetic aspect of the ring of integers in certain abelian fields. **2001m:11178**
Umegaki, Atsuki *see* **Murabayashi, Naoki, 2001m:14066**
Yakovleva, A. A. On an embedding problem. (Russian. English and Russian summaries) **2001b:11102**

11R18 Cyclotomic extensions

Amoroso, Francesco (*with* Dvornicich, Roberto) A lower bound for the height in abelian extensions. (English summary) **2001b:11100**
Conrad, Marc On explicit relations between cyclotomic numbers. **2001d:11101**
— Construction of bases for the group of cyclotomic units. (English summary) **2001f:11182**
Dvornicich, Roberto (*with* Zannier, Umberto) On sums of roots of unity. (English summary) **2001f:11183**
— *see also* **Amoroso, Francesco, 2001b:11100**
Ghate, Eknath Vandiver's conjecture via K-theory. **2001k:11211**
Helou, Charles Corrigendum to: "Norm residue symbol and cyclotomic units" [Acta Arith. **73** (1995), no. 2, 147–188; MR 96k:11126]. **2001j:11101**
Jakubec, Stanislav Note on the cubic residues. (English summary) **2001m:11184**
Jaulent, Jean-François (*with* Maire, C.) À propos de la tour localement cyclotomique d'un corps de nombres. (English and French summaries) [On the locally cyclotomic tower of a number field] **2001j:11101**
Jedelský, David (*with* Skula, Ladislav) Some results from the tables of irregularity index of a prime. (English summary) **2001k:11212**
Kanetkar, Sharad V. Kronecker-Weber via ramification theory. **2001m:11185**
Maire, C. *see* **Jaulent, Jean-François, 2001j:11101**
Puchta, Jan-Christoph On the class number of p-th cyclotomic field. (English summary) **2001a:11178**
Skula, Ladislav *see* **Jedelský, David, 2001k:11212**
Soulé, Christophe Perfect forms and the Vandiver conjecture. **2001d:11102**
Thaine, F. Families of irreducible polynomials of Gaussian periods and matrices of cyclotomic numbers. (English summary) **2001a:11179**
Thangadurai, R. On the coefficients of cyclotomic polynomials. **2001k:11213**
Villarreal Sáez de Urabain, Leopoldo Cyclotomic concurrences. (Spanish. Spanish summary) **2001k:11214**
Yogananda, C. S. Stickelberger revisited. **2001m:11186**
Zannier, Umberto *see* **Dvornicich, Roberto, 2001f:11183**

Items with secondary classifications in 11R18

(Adhikari, Sukumar Das) *see* **Cyclotomic fields and related topics, 2001f:11004**

Buhler, Joe (*with* Crandall, Richard E.; Ernvall, Reijo; Metsänkylä, Tauno; Shokrollahi, M. Amin) Irregular primes and cyclotomic invariants to 12 million. (English summary) **2001m:11220**
Conrad, Marc About the kernel of the augmentation of finitely generated **Z**-modules. (English summary) **2001g:20066**
Crandall, Richard E. *see* **Buhler, Joe et al., 2001m:11220**
Dubois, I. S-unités et S-groupe de classes d'un corps de nombres cyclique de degré premier. (English and French summaries) [S-units and S-class groups of a cyclic number field of prime degree] **2001i:11129**
Ernvall, Reijo *see* **Buhler, Joe et al., 2001m:11220**
Jakubec, Stanislav Connection between Schinzel's conjecture and divisibility of the class number h_p^+. **2001c:11122**
(Katre, S. A.) *see* **Cyclotomic fields and related topics, 2001f:11004**
Kimijima, Tatsuya (*with* Morita, Jun) A certain algebraic construction of quasicrystals and their isomorphism classes. (English summary) **2001k:52034**
Kolyvagin, V. A. The first case of Fermat's theorem for cyclotomic fields. (Russian. Russian summary) **2001h:11035**
Kuz'min, L. V. Some explicit computations in local and global cyclotomic fields. (Russian) **2001c:11121**
Lemmermeyer, Franz ★ Reciprocity laws. (English summary) **2001i:11009**
Metsänkylä, Tauno *see* **Buhler, Joe et al., 2001m:11220**
Morita, Jun *see* **Kimijima, Tatsuya, 2001k:52034**
Nakahara, Toru *see* **Shah, Syed Inayat Ali, 2001m:11187**
Rubin, Karl Euler systems and modular elliptic curves. **2001a:11106**
Shah, Syed Inayat Ali (*with* Nakahara, Toru) Non-monogenesis of the ring of integers in a sextic field of a prime conductor. **2001m:11187**
Shioda, Tetsuji Cyclotomic analogue in the theory of algebraic equations of type E_6, E_7, E_8. (English summary) **2001d:11068**
Shokrollahi, M. Amin *see* **Buhler, Joe et al., 2001m:11220**
Thakur, Dinesh S. Quadratic and cyclotomic fields. **2001k:11208**
— Fermat's last theorem for regular primes. **2001k:11044**
— *see also* **Cyclotomic fields and related topics, 2001f:11004**
Videla, Carlos R. The undecidability of cyclotomic towers. (English summary) **2001b:11113**
Vinnik, P. M. *see* **Vostokov, S. V., 2001f:11198** *and* **2001m:11213**
Vostokov, S. V. (*with* Vinnik, P. M.) The calculation of a number of representations for elements $\mathbf{Z}/p^n\mathbf{Z}$ in the form of sum of l-degrees. I. (English summary) **2001f:11198**
— (*with* Vinnik, P. M.) Calculation of a number of representations for elements of $\mathbf{Z}/p^n\mathbf{Z}$ by sums of the l-th degrees. II. (English summary) **2001m:11213**

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Pune ★ Cyclotomic fields and related topics. **2001f:11004**
School:
Cyclotomic Fields ★ Cyclotomic fields and related topics. **2001f:11004**

11R20 Other abelian and metabelian extensions

Acciaro, Vincenzo (*with* Fieker, Claus) Finding normal integral bases of cyclic number fields of prime degree. (English summary) **2001i:11125**
Benjamin, Elliot On the second Hilbert 2-class field of real quadratic number fields with 2-class group isomorphic to $(2, 2^n)$, $n \geq 2$. (English summary) **2001a:11180**
Fieker, Claus *see* **Acciaro, Vincenzo, 2001i:11125**
Nakahara, Toru *see* **Shah, Syed Inayat Ali, 2001m:11187**
Shah, Syed Inayat Ali (*with* Nakahara, Toru) Non-monogenesis of the ring of integers in a sextic field of a prime conductor. **2001m:11187**
Thiebaud, Caroline Sur la capitulation dans les corps de genres d'une extension abélienne d'un corps quadratique imaginaire. (English and French summaries) [Capitulation in the genus fields of an abelian extension of an imaginary quadratic field] **2001m:11188**
Tsumura, Hirofumi A note on the Demjanenko matrices related to the cyclotomic $\mathbf{Z}_p$-extension. (English summary) **2001m:11189**

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11R29 Class numbers, class groups, discriminants

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11R32 Galois theory

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Holden, Joshua Brandon On the Fontaine-Mazur conjecture for number fields and an analogue for function fields. (English summary) **2001e:11111**
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11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [see also 20C10]

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Cassou-Noguès, Ph. (*with* Taylor, Martin J.) Galois module structure for wild extensions. (English summary) **2001h:11141**
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Erez, Boas Galois modules and class field theory. **2001m:11198**
Hooper, Jeffrey James (*with* Snaith, Victor P.; Tran, Minh van) The second Chinburg conjecture for quaternion fields. (English summary) **2001g:11172**
Ichimura, Humio On power integral bases of unramified cyclic extensions of prime degree. **2001m:11199**
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López Bautista, Pedro Ricardo p-adic Galois representation of p-class group. (English summary) (*see* **2001d:00036**)
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11R34 Galois cohomology [see also 12Gxx, 16H05, 19A31]

Choi, Eun Mi (*with* Lee, Heisook) Crossed product algebras over cyclotomic extension fields. (English summary) **2001b:11103**
Flach, M. Euler characteristics in relative K-groups. **2001b:11104**
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Sumida, Hiroki On capitulation of S-ideals in $\mathbf{Z}_p$-extensions. (English summary) **2001m:11190**
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Yamashita, Hiroshi[1] On the rank of the first radical layer of a p-class group of an algebraic number field. (English summary) **2001a:11184**
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11R37 Class field theory

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Gras, Georges (*with* Munnier, Adeline) Extensions cycliques T-totalement ramifiées. [Totally T-ramified cyclic extensions] **2001d:11109**
Hajir, Farshid Correction to: "On a theorem of Koch" [Pacific J. Math. **176** (1996), no. 1, 15–18; MR 97k:11161]. **2001m:11200**
Hong, Kuk Jin (*with* Koo, Ja Kyung) Generation of class fields by the modular function $j_{1,12}$. **2001f:11188**
Jaulent, Jean-François (*with* Sauzet, Odile) Extensions quadratiques 2-birationnelles de corps totalement réels. (English summary) [2-birational quadratic extensions of totally real fields] **2001f:11189**
— *see also* **Anglès, Bruno, 2001b:11105**
Khare, Chandrashekhar (*with* Prasad, Dipendra) On the Steinitz module and capitulation of ideals. (English summary) **2001k:11229**
Koo, Ja Kyung *see* **Hong, Kuk Jin, 2001f:11188**
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Munnier, Adeline *see* **Gras, Georges, 2001d:11109**
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Benjamin, Elliot On the second Hilbert 2-class field of real quadratic number fields with 2-class group isomorphic to $(2, 2^n)$, $n \geq 2$. (English summary) **2001a:11180**
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Connes, Alain Trace formula on the adèle class space and Weil positivity. (English summary) **2001a:11185**
Daberkow, Mario On computations in Kummer extensions. (English summary) **2001m:11221**
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Hémard, Denis Corps de nombres d'indice divisible par un entier donné, dans [sans] facteur carré. (English summary) [Number fields with index divisible by a given integer without square factor] **2001d:11099**
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Kishi, Yasuhiro A constructive approach to Spiegelung relations between 3-ranks of absolute ideal class groups and congruent ones modulo $(3)^2$ in quadratic fields. **2001h:11137**
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Lefeuvre, Yann (*with* Louboutin, Stéphane) The class number one problem for the dihedral CM-fields. (English summary) **2001k:11224**
Lenstra, Hendrik W., Jr. (*with* Stevenhagen, Peter) Artin reciprocity and Mersenne primes. **2001h:11006**
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Maire, C. *see* **Jaulent, Jean-François, 2001j:11101**
Movahhedi, A. (*with* Zahidi, M.) Symboles des restes quadratiques des discriminants dans les extensions modérément ramifiées. [Symbols of quadratic residues of discriminants in tamely ramified extensions] **2001a:11183**
Oh, Jangheon The first layer of $\mathbf{Z}_2^2$-extension over imaginary quadratic fields. (English summary) **2001i:11126**
Okazaki, Ryotaro Inclusion of CM-fields and divisibility of relative class numbers. **2001h:11138**
Olivier, Michel Jacques *see* **Cohen, Henri et al., 2001c:11123**
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Roblot, Xavier-François Stark's conjectures and Hilbert's twelfth problem. (English summary) **2001g:11174**
Schmidt, Alexander On Poitou's duality theorem. **2001e:11109**
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11R39 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E55]

Ash, Avner (*with* Gross, Robert) Generalized non-abelian reciprocity laws: a context for Wiles' proof. (English summary) **2001h:11142**
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— (*with* Sinnott, Warren) An analogue of Serre's conjecture for Galois representations and Hecke eigenclasses in the mod p cohomology of $GL(n, \mathbf{Z})$. **2001g:11081**
Böckle, Gebhard Demuškin groups with group actions and applications to deformations of Galois representations. (English summary) **2001i:11135**
Boyer, Pascal Mauvaise réduction des variétés de Drinfeld et correspondance de Langlands locale. [Bad reduction of Drinfel'd varieties and local Langlands correspondence] **2001h:11150**
Henniart, Guy Une preuve simple des conjectures de Langlands pour $GL(n)$ sur un corps p-adique. (English summary) [A simple proof of the Langlands conjectures for $GL(n)$ over a p-adic field] **2001e:11052**
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Liu, Guo Dong Recurrence sequences and higher order multivariable Euler-Bernoulli polynomials. (Chinese. English summary) **2001g:11022**
Prasad, Dipendra (*with* Yogananda, C. S.) A report on Artin's holomorphy conjecture. **2001i:11131**
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Wiles, Andrew Twenty years of number theory. **2001f:11002**
Yogananda, C. S. *see* **Prasad, Dipendra, 2001i:11131**

11R42 Zeta functions and L-functions of number fields [see also 11M41, 19F27]

Coykendall, Jim A remark on arithmetic equivalence and the normset. **2001e:11110**
Dummit, David S. (*with* Tangedal, Brett A.) Computing the lead term of an abelian L-function. (English summary) **2001d:11110**
Kuz'min, L. V. Some remarks on the l-adic regulator. III. (Russian. Russian summary) **2001i:11130a**
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Louboutin, Stéphane Explicit upper bounds for residues of Dedekind zeta functions and values of L-functions at $s = 1$, and explicit lower bounds for relative class numbers of CM-fields (abridged version). (English summary) (*see* **2001f:11003**)
Murty, M. Ram (*with* Raghuram, A.) Some variations on the Dedekind conjecture. (English summary) **2001m:11201**
Murty, Vijaya Kumar Stark zeros in certain towers of fields. **2001b:11106**
Nicolae, Florin Über die lineare Unabhängigkeit der Dedekindschen Zetafunktionen galoisscher Zahlkörper. (German summary) [On the linear independence of the Dedekind zeta functions of Galois number fields] **2001j:11107**
Omar, Sami Majoration du premier zéro de la fonction zêta de Dedekind. [Upper bound for the first zero of the Dedekind zeta function] **2001h:11143**
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Friedman, Eduardo (*with* Skoruppa, Nils-Peter) A Poisson summation formula for extensions of number fields. (English summary) **2001g:11176**
Gangl, Herbert Some computations in weight 4 motivic complexes. (English summary) **2001h:11084**
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Grundman, H. G. Nonrational Hilbert modular threefolds. (English summary) **2001d:11050**
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Lefeuvre, Yann (*with* Louboutin, Stéphane) The class number one problem for the dihedral CM-fields. (English summary) **2001k:11224**
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Watanabe, Takao On an analog of Hermite's constant. (English summary) **2001a:11111**
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11R44 Distribution of prime ideals [see also 11N05]

Gross, Robert (*with* Smith, John H.) A generalization of a conjecture of Hardy and Littlewood to algebraic number fields. (English summary) **2001g:11175**
Matsui, Hajime A bound for the least Gaussian prime ω with $\alpha < \arg(\omega) < \beta$. (English summary) **2001d:11111**
Roskam, Hans Erratum: "A quadratic analogue of Artin's conjecture on primitive roots" [J. Number Theory **81** (2000), no. 1, 93–109; MR 2000k:11128]. **2001m:11202**
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11R45 Density theorems

Chen, Yen-Mei J. (*with* Kitaoka, Yoshiyuki; Yu, Jing) Distribution of units of real quadratic number fields. (English summary) **2001k:11230**
Cohen, Henri (*with* Diaz y Diaz, Francisco; Olivier, Michel Jacques) Densité des discriminants des extensions cycliques de degré premier. (English and French summaries) [Density of discriminants of cyclic extensions of prime degree] **2001c:11123**
Diaz y Diaz, Francisco *see* **Cohen, Henri et al., 2001c:11123**
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11R47 Other analytic theory [see also 11Nxx]

Elsner, Carsten (*with* Sander, J. W.) On the distribution of residue classes of quadratic forms and integer-detecting sequences in number fields. (English summary) **2001h:11144**
Friedman, Eduardo (*with* Skoruppa, Nils-Peter) A Poisson summation formula for extensions of number fields. (English summary) **2001g:11176**
Huxley, M. N. (*with* Watt, N.) The number of ideals in a quadratic field. II. (English summary) **2001m:11203**
Kitaoka, Yoshiyuki The distribution of the units of real quadratic fields. (Japanese) (*see* **2001f:11003**)
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Chen, Yen-Mei J. (*with* Kitaoka, Yoshiyuki; Yu, Jing) Distribution of units of real quadratic number fields. (English summary) **2001k:11230**
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Kaczorowski, J. (*with* Perelli, Alberto) The Selberg class: a survey. **2001g:11141**
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Le, Mao Hua (*with* Chen, Hong Ji) An upper bound for class numbers of real quadratic fields $\mathbf{Q}(\sqrt{p})$ with $p \equiv 3 \pmod 4$. (Chinese. English and Chinese summaries) **2001e:11108**
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11R52 Quaternion and other division algebras: arithmetic, zeta functions

Baake, Michael (*with* Moody, Robert V.) Similarity submodules and root systems in four dimensions. (English summary) **2001f:11192**
Brzezinski, Juliusz On traces of the Brandt-Eichler matrices. (English and French summaries) **2001m:11204**
Jun, Sungtae (*with* Kim, Insuk) The embeddings of orders over a dyadic local field. (English summary) **2001i:11133**
Kim, Insuk *see* **Jun, Sungtae, 2001i:11133**
Kleinert, Ernst ★ Units in skew fields. (English summary) **2001g:11177**
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Kuba, Gerald On the distribution of squares of integral quaternions. **2001m:11165**
Sodaïgui, Bouchaïb Realizable classes of quaternion extensions of degree $4l$. (English summary) **2001k:11234**

11R54 Other algebras and orders, and their zeta and L-functions [see also 11S45, 16H05, 16Kxx]

Minemura, Kenji On totally real cubic orders having unit groups of type $\langle a\theta + b, c\theta + d\rangle$. (Japanese) (*see* **2001h:00016**)

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Picavet-L'Hermitte, Martine Factorization in some orders with a PID as integral closure. (English summary) **2001h:13001**
Talamanca, Valerio A Gelfand-Beurling type formula for heights on endomorphism rings. (English summary) **2001i:11081**

11R56 Adèle rings and groups

Connes, Alain Trace formula on the adèle class space and Weil positivity. (English summary) **2001a:11185**
Lerner, È. Yu. On an adelic formula for Gaussian integrals. (Russian) **2001k:11231**

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Burnol, Jean-François Sur les formules explicites. I. Analyse invariante. (English and French summaries) [On explicit formulae. I. Invariant analysis] **2001m:11155**
Gross, Robert *see* **Ash, Avner, 2001h:11142**
Kimata, Seiji (*with* Watanabe, Takao) Adelic Minkowski's second theorem over a division algebra. (English summary) **2001k:11120**
Parshin, A. N. Higher dimensional local fields and L-functions. **2001k:11246**
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— *see also* **Kimata, Seiji, 2001k:11120**

11R58 Arithmetic theory of algebraic function fields [see also 14–XX]

Garcia, Arnaldo (*with* Stichtenoth, Henning) Skew pyramids of function fields are asymptotically bad. **2001a:11186**
Holden, Joshua Brandon On the Fontaine-Mazur conjecture for number fields and an analogue for function fields. (English summary) **2001e:11111**
Hu, Weiqun A Schinzel theorem on continued fractions in function fields. **2001d:11112**
Kochubei, A. N. Differential equations for $\mathbf{F}_q$-linear functions. (English summary) **2001d:11113**
López Bautista, Pedro Ricardo On the semisimple holomorphic differentials in characteristic p. (English summary) (*see* **2001d:00036**)
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Özbudak, Ferruh (*with* Thomas, Michael[2]) A note on towers of function fields over finite fields. (English summary) **2001f:11193**
Scheidler, R. Purely cubic complex function fields with small units. **2001g:11178**
— Decision problems in quadratic function fields of high genus. (English summary) **2001e:11112**
Sémirat, Stéphan Class number one problem for imaginary function fields: the cyclic prime power case. (English summary) **2001i:11134**
Stichtenoth, Henning *see* **Garcia, Arnaldo, 2001a:11186**
Thakur, Dinesh S. Hypergeometric functions for function fields. II. (English summary) **2001g:11179**
Thomas, Michael[2] *see* **Özbudak, Ferruh, 2001f:11193**
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— On Gekeler's conjecture for function fields. (English summary) **2001m:11205**
Ballet, Stéphane Curves with many points and multiplication complexity in any extension of $\mathbf{F}_q$. (English summary) **2001d:11065**
Boston, Nigel (*with* Ose, David T.) Characteristic p Galois representations that arise from Drinfeld modules. (English summary) **2001f:11094**
Brussel, Eric S. Noncrossed products over $k_p(t)$. (English summary) **2001j:16022**
Chai, Ching-Li (*with* Li, Wen-Ching Winnie) Function fields: arithmetic and applications. (English summary) **2001f:11151**
Duursma, Iwan M. A Riemann hypothesis analogue for self-dual codes. (English summary) **2001m:94055**
Fried, Michael D. Applications of curves over finite fields. (English summary) **2001c:11066**
Goss, David A Riemann hypothesis for characteristic p L-functions. (English summary) **2001k:11171**
Hayes, David R. Distribution of minimal ideals in imaginary quadratic function fields. (English summary) **2001a:11188**
Hong, Kuk Jin (*with* Koo, Ja Kyung) Generation of class fields by the modular function $j_{1,12}$. **2001f:11188**
Jaulent, Jean-François *see* **Anglès, Bruno, 2001b:11105**
Kaiser, Christian[2] (*with* Riedel, Jens-Erik) Tamagawazahlen und die Poincaréreihen affiner Weylgruppen. (English summary) [Tamagawa numbers and the Poincaré series of affine Weyl groups] **2001f:11058**
Koo, Ja Kyung *see* **Hong, Kuk Jin, 2001f:11188**
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López, Bartolomé (*with* Luengo, Ignacio) Codes on Drinfeld modular curves. (English summary) **2001e:11060**
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Mauduit, Véronique Euler pseudoprime polynomials and strong pseudoprime polynomials. (English summary) **2001g:11089**
Niederreiter, Harald (*with* Xing, Chaoping) Algebraic curves over finite fields with many rational points and their applications. (English summary) **2001c:11067**
Ose, David T. *see* **Boston, Nigel, 2001f:11094**
Pink, Richard Stong approximation for Zariski dense subgroups over arbitrary global fields. (English summary) **2001k:20106**
Pop, Florian Alterations and birational anabelian geometry. **2001g:11171**
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Ries, Heather (*with* Shlapentokh, Alexandra) Holomorphy modules of number fields and function fields. (English summary) **2001a:13035**
Rzedowski-Calderón, Martha (*with* Villa-Salvador, Gabriel Daniel; Madan, Manohar L.) Galois module structure of holomorphic differentials. (English summary) **2001j:11106**
Schweizer, Andreas Involutory elliptic curves over $\mathbf{F}_q(T)$. (English and French summaries) **2001m:11098**
Sémirat, Stéphan Cyclotomic function fields with ideal class number one. (English summary) **2001m:11206**
Shlapentokh, Alexandra *see* **Ries, Heather, 2001a:13035**
Takhtajan, Leon A. Quantum field theories on an algebraic curve. (English summary) **2001m:81267**
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Yanchevskiĭ, Vyacheslav I. Brauer groups of curves and reciprocity laws in Brauer groups of their function fields. **2001f:14035**
Zhang, Xianke (*with* Wang, Kunpeng) Ideal class groups and subgroups of real quadratic function fields. (English summary) **2001k:11226**

11R60 Cyclotomic function fields (class groups, Bernoulli objects, etc.)

Anglès, Bruno On Gekeler's conjecture for function fields. (English summary) **2001m:11205**
Chi, Wen-Chen (*with* Li, Anly) Kummer theory of division points over Drinfeld modules of rank one. (English summary) **2001k:11233**
Hayes, David R. Distribution of minimal ideals in imaginary quadratic function fields. (English summary) **2001a:11188**
Lam Estrada, Pablo Cyclotomic function fields. (English summary) (*see* **2001d:00036**)
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Sémirat, Stéphan Cyclotomic function fields with ideal class number one. (English summary) **2001m:11206**

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Yin, Linsheng Stickelberger ideals and relative class numbers in function fields. **2001d:11114**

11R65 Class groups and Picard groups of orders

Estes, Dennis R. (*with* Moon, Kyunghee) Form class groups over number fields. (English summary) **2001g:11180**
Moon, Kyunghee *see* **Estes, Dennis R., 2001g:11180**

Sodaïgui, Bouchaïb Realizable classes of quaternion extensions of degree $4l$. (English summary) **2001k:11234**

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Yue, Qin (*with* Feng, Keqin) The 4-rank of the tame kernel versus the 4-rank of the narrow class group in quadratic number fields. **2001m:11207**

11R70 K-theory of global fields [see also 19Fxx]

(Belabas, Karim) *see* **Browkin, Jerzy, 2001a:11189**
Browkin, Jerzy Computing the tame kernel of quadratic imaginary fields. (English summary) **2001a:11189**
Chinburg, Ted (*with* Kolster, M.; Snaith, Victor P.) Quaternionic exercises in K-theory Galois module structure. II. (English summary) **2001a:11190**
Feng, Keqin *see* **Yue, Qin, 2001m:11207**
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Karoubi, Max (*with* Lambre, Thierry) Quelques classes caractéristiques en théorie des nombres. (English and French summaries) [Some characteristic classes in number theory] **2001h:11145**
Kolster, M. (*with* Movahhedi, A.) Galois co-descent for étale wild kernels and capitulation. (English and French summaries) **2001d:11115**
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Lambre, Thierry *see* **Karoubi, Max, 2001h:11145**
Movahhedi, A. *see* **Kolster, M., 2001d:11115**
Snaith, Victor P. *see* **Chinburg, Ted et al., 2001a:11190**
Soriano-Gafiuk, Florence Sur le noyau hilbertien d'un corps de nombres. (English and French summaries) [On the Hilbert kernel of a number field] **2001g:11181**
Yue, Qin 2-Sylow subgroups of K_2O_F for real quadratic field and class group for imaginary quadratic field. **2001e:11113**
— (*with* Feng, Keqin) The 4-rank of the tame kernel versus the 4-rank of the narrow class group in quadratic number fields. **2001m:11207**
— The structure of certain K_2O_F. (English and Chinese summaries) **2001k:11235**

Items with secondary classifications in 11R70

Banaszak, Grzegorz (*with* Gajda, Wojciech; Krasoń, Piotr) A support problem for K-theory of number fields. (English and French summaries) **2001j:19003**
Bloch, Spencer J. ★ Higher regulators, algebraic K-theory, and zeta functions of elliptic curves. (English summary) **2001i:11082**
Gajda, Wojciech *see* **Banaszak, Grzegorz et al., 2001j:19003**
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Ghate, Eknath Vandiver's conjecture via K-theory. **2001k:11211**
Jahren, Bjørn K-theory, flat bundles and the Borel classes. (English summary) **2001e:19004**
Köck, Bernhard Operations on locally free classgroups. **2001j:11105**
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Soulé, Christophe Perfect forms and the Vandiver conjecture. **2001d:11102**
Sun, Ailing The Tate kernel of the number field $\mathbf{Q}(\sqrt{-3})$. (English and Chinese summaries) **2001a:19003**
Urbanowicz, Jerzy (*with* Williams, Kenneth S.) ★ Congruences for L-functions. (English summary) **2001k:11209**
Williams, Kenneth S. *see* **Urbanowicz, Jerzy, 2001k:11209**
Zagier, Don (*with* Gangl, Herbert) Classical and elliptic polylogarithms and special values of L-series. **2001g:11108**

11R80 Totally real and totally positive fields [see also 12J15]

Greither, Cornelius Some cases of Brumer's conjecture for abelian CM extensions of totally real fields. **2001c:11124**

Items with secondary classifications in 11R80

Doche, Christophe On the spectrum of the Zhang-Zagier height. (English summary) **2001f:11181**
Dubickas, Artūras Totally real algebraic integers in small intervals. (English and Lithuanian summaries) **2001k:11204**
Shlapentokh, Alexandra Defining integrality at prime sets of high density in number fields. **2001a:11200**
Takeuchi, Kisao Totally real algebraic number fields of degree 9 with small discriminant. (English summary) **2001a:11181**

11R99 None of the above, but in this section

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Conrad, Keith The digit principle. (English summary) **2001i:11143**
Jeong, Sangtae A comparison of the Carlitz and digit derivative bases in function field arithmetic. (English summary) **2001i:11144**
— Continuous linear endomorphisms and difference equations over the completion of $\mathbf{F}_q[T]$. (English summary) **2001i:11145**
Reznikov, Alexander Embedded incompressible surfaces and homology of ramified coverings of three-manifolds. **2001g:57035**

11Sxx Algebraic number theory: local and p-adic fields

Robert, Alain M. ★ A course in p-adic analysis. (English summary) **2001g:11182**

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(Fesenko, Ivan) *see* **Invitation to higher local fields, 2001h:11005**
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11S05 Polynomials

Zaharescu, Alexandru A metric symbol for pairs of polynomials over local fields. (English and French summaries) **2001h:11146**

Items with secondary classifications in 11S05

Bandini, Andrea Extensions of the p-adic fields generated by the roots of a single polynomial in two variables. (English summary) **2001c:11125**
Maller, Michael (*with* Whitehead, Jennifer) Efficient p-adic cell decompositions for univariate polynomials. (English summary) **2001f:11195**
Whitehead, Jennifer *see* **Maller, Michael, 2001f:11195**

11S15 Ramification and extension theory

Bandini, Andrea Extensions of the p-adic fields generated by the roots of a single polynomial in two variables. (English summary) **2001c:11125**
Benois, Denis On Iwasawa theory of crystalline representations. **2001m:11208**
Bondarko, M. V. (*with* Vostokov, S. V.) Decomposition of ideals in abelian p-extensions of complete discrete valuation fields. (Russian. English and Russian summaries) **2001b:11108**
— (*with* Vostokov, S. V.) Investigation of the isomorphism of ideals, regarded as Galois modules, of complete discrete valuation fields with a residue field of positive characteristic [1 766 020]. (Russian)
— (*with* Vostokov, S. V.) Decomposability of ideals as Galois modules in complete discrete valuation fields. (Russian. Russian summary) **2001b:11107**
— The presence of idempotents in the endomorphism ring of an ideal in a p-extension of a complete discrete valuation field with a residue field of characteristic p as a Galois module. (Russian. English and Russian summaries) **2001c:11126**
Fesenko, Ivan On just infinite pro-p-groups and arithmetically profinite extensions of local fields. **2001k:11236**
Gao, En Wei (*with* Zhang, Jin Xia) On W. Y. Vélez's conjecture. (Chinese. English and Chinese summaries) **2001k:11237**
Pak, G. K. *see* **Vostokov, S. V. et al., 2001e:11114**
Spriano, Luca On ramification theory of monogenic extensions. **2001k:11238**
— Well ramified extensions of complete discrete valuation fields with applications to the Kato conductor. (English summary) **2001j:11109**
Vostokov, S. V. (*with* Zhukov, I. B.; Pak, G. K.) Extensions with almost maximal depth of ramification. (Russian. English and Russian summaries) **2001e:11114**
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Childs, Lindsay N. ★ Taming wild extensions: Hopf algebras and local Galois module theory. (English summary) **2001e:11116**
Crew, Richard Canonical extensions, irregularities, and the Swan conductor. **2001c:14039**
Fesenko, Ivan Higher class field theory without using K-groups. **2001k:11241**
— *see also* **du Sautoy, Marcus, 2001h:20034**
İkeda, Kâzım İlhan On the Artin conductor $f_{\mathrm{Artin}}(\chi)$ of a character χ of $\mathrm{Gal}(E/K)$. I. Basic definitions. (English summary) **2001i:11137**
Iovita, Adrian (*with* Zaharescu, Alexandru) Galois theory of B_{dR}^{+}. (English summary) **2001e:11115**
Kuz'min, L. V. Some remarks on the l-adic regulator. IV. (Russian. Russian summary) **2001i:11130b**
Moreno, Carlos Julio Harmonic analysis on finite rings and applications. **2001k:11256**
Movahhedi, A. (*with* Zahidi, M.) Symboles des restes quadratiques des discriminants dans les extensions modérément ramifiées. [Symbols of quadratic residues of discriminants in tamely ramified extensions] **2001a:11183**
du Sautoy, Marcus (*with* Fesenko, Ivan) Where the wild things are: ramification groups and the Nottingham group. **2001h:20034**
Sury, B. Absolute values and completions. **2001k:12017**
Van Geel, Jan (*with* Yanchevskiĭ, Vyacheslav I.) Indices of double coverings of genus 1 over p-adic fields. (English and French summaries) **2001e:11068**
Yanchevskiĭ, Vyacheslav I. *see* **Van Geel, Jan, 2001e:11068**
Zaharescu, Alexandru *see* **Iovita, Adrian, 2001e:11115**
Zahidi, M. *see* **Movahhedi, A., 2001a:11183**

11S20 Galois theory

Bayer, Pilar (*with* Rio, Anna) Dyadic exercises for octahedral extensions. (English summary) **2001a:11191**
Böckle, Gebhard Demuškin groups with group actions and applications to deformations of Galois representations. (English summary) **2001i:11135**
Colmez, Pierre Représentations cristallines et représentations de hauteur finie. [Crystalline representations and representations of finite height] **2001h:11147**
Fesenko, Ivan Local reciprocity cycles. **2001k:11239**
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Perrin-Riou, Bernadette Représentations p-adiques et normes universelles. I. Le cas cristallin. [p-adic representations and universal norms. I. The crystalline case] **2001g:11183**
Rio, Anna *see* **Bayer, Pilar, 2001a:11191**
Zaharescu, Alexandru *see* **Iovita, Adrian, 2001e:11115**

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Abrashkin, V. A. On a local analogue of the Grothendieck conjecture. (English summary) **2001j:12003**
Bley, Werner (*with* Boltje, Robert) Lubin-Tate formal groups and module structure over Hopf orders. (English and French summaries) **2001b:11110**
Boltje, Robert *see* **Bley, Werner, 2001b:11110**
Bondarko, M. V. (*with* Vostokov, S. V.) Decomposability of ideals as Galois modules in complete discrete valuation fields. (Russian. Russian summary) **2001b:11107**
Childs, Lindsay N. ★ Taming wild extensions: Hopf algebras and local Galois module theory. (English summary) **2001e:11116**
Kuz'min, L. V. Some remarks on the l-adic regulator. IV. (Russian. Russian summary) **2001f:11130b**
Pop, Florian Alterations and birational anabelian geometry. **2001g:11171**
Spriano, Luca Well ramified extensions of complete discrete valuation fields with applications to the Kato conductor. (English summary) **2001j:11109**
Vostokov, S. V. *see* **Bondarko, M. V., 2001b:11107**

11S23 Integral representations

(Bley, Werner) *see* **Burns, David J., 2001j:11111**
Burns, David J. On the equivariant structure of ideals in abelian extensions of local fields. (English summary) **2001j:11111**
Byott, Nigel P. Galois module structure and Kummer theory for Lubin-Tate formal groups. (English summary) **2001h:11148**
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Colmez, Pierre (*with* Fontaine, Jean-Marc) Construction des représentations p-adiques semi-stables. [Construction of semistable p-adic representations] **2001g:11184**
Fontaine, Jean-Marc *see* **Colmez, Pierre, 2001g:11184**
Kim, Minhyong (*with* Marshall, Susan H.) Crystalline subrepresentations and Néron models. (English summary) **2001k:11240**
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Malinin, D. A. Integer representations, stable under the action of the Galois group, of finite groups. (Russian) **2001i:20014**

11S25 Galois cohomology [see also 12Gxx, 16H05]

Banaszak, Grzegorz (*with* Gajda, Wojciech; Krasoń, Piotr) On Galois cohomology of some p-adic representations and étale K-theory of curves. (English summary) **2001b:11109**
Gajda, Wojciech *see* **Banaszak, Grzegorz et al., 2001b:11109**
Krasoń, Piotr *see* **Banaszak, Grzegorz et al., 2001b:11109**

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Benois, Denis On Iwasawa theory of crystalline representations. **2001m:11208**
Coates, J. H. (*with* Howson, S.) Euler characteristics and elliptic curves. II. (English summary) **2001k:11215**
Colliot-Thélène, Jean-Louis Cohomologie galoisienne des corps valués discrets henseliens, d'après K. Kato et S. Bloch. (French summary) [Galois cohomology of Henselian discrete valuation fields, after K. Kato and S. Bloch] **2001c:11128**
Colmez, Pierre Représentations cristallines et représentations de hauteur finie. [Crystalline representations and representations of finite height] **2001h:11147**
Flach, M. Euler characteristics in relative K-groups. **2001b:11104**
Hooper, Jeffrey James (*with* Snaith, Victor P.; Tran, Minh van) The second Chinburg conjecture for quaternion fields. (English summary) **2001g:11172**
Howson, S. *see* **Coates, J. H., 2001k:11215**
Iovita, Adrian (*with* Zaharescu, Alexandru) Galois theory of B_{dR}^{+}. (English summary) **2001e:11115**
Snaith, Victor P. *see* **Hooper, Jeffrey James et al., 2001g:11172**
Tran, Minh van *see* **Hooper, Jeffrey James et al., 2001g:11172**
Zaharescu, Alexandru *see* **Iovita, Adrian, 2001e:11115**

11S31 Class field theory; p-adic formal groups [see also 14L05]

Fesenko, Ivan Parshin's higher local class field theory in characteristic p. **2001k:11242**
— Explicit higher local class field theory. **2001k:11243**
— Higher class field theory without using K-groups. **2001k:11241**
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11S37 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E50]

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11S40 Zeta functions and L-functions [see also 11M41, 19F27]

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11S45 Algebras and orders, and their zeta functions [see also 11R52, 11R54, 16H05, 16Kxx]

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11S70 K-theory of local fields [see also 19Fxx]

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Nakamura, Jinya On the Milnor K-groups of complete discrete valuation fields. (English summary) **2001d:19001**
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Takahashi, Tetsuya Character formula for the supercuspidal representations of GL_4. (*see* **2001m:11001**)

11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)

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Conrad, Keith A q-analogue of Mahler expansions. I. (English summary) **2001i:11140**
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Kim, Min-Soo (*with* Son, Jin-Woo) On Bernoulli numbers. (English summary) **2001g:11020**
Kim, Tae-Kyun (*with* Rim, Seog Hoon) Explicit formulas for the q-Bernoulli numbers of higher order. **2001i:11022**
— Remark on p-adic q-L-functions and sums of powers. (English summary) **2001i:11138**
— (*with* Rim, Seog Hoon) A note on p-adic Carlitz's q-Bernoulli numbers. (English summary) **2001g:11021**
Kudo, Aichi A congruence of generalized Bernoulli number for the character of the first kind. **2001j:11115**
Lerner, È. Yu. On an adelic formula for Gaussian integrals. (Russian) **2001k:11231**
Parshin, A. N. Higher dimensional local fields and L-functions. **2001k:11246**
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11S85 Other nonanalytic theory

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Benedetto, Robert L. Reduction, dynamics, and Julia sets of rational functions. (English summary) **2001m:11211**
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Buium, Alexandru Continuous π-adic functions and π-derivations. **2001g:11186**
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Jeong, Sangtae A comparison of the Carlitz and digit derivative bases in function field arithmetic. (English summary) **2001i:11144**
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Kapranov, M. Double affine Hecke algebras and 2-dimensional local fields. **2001k:20007**
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Zheglov, A. B. Higher local skew fields. **2001m:12004**

11S90 Prehomogeneous vector spaces

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Shahidi, Freydoon Poles of intertwining operators via endoscopy: the connection with prehomogeneous vector spaces. (English summary) **2001i:11060**
(Shelstad, Diana) *see* **Shahidi, Freydoon, 2001i:11060**
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Yukie, Akihiko Density theorems related to prehomogeneous vector spaces. (*see* **2001m:11001**)

11S99 None of the above, but in this section

Jeong, Sangtae Continuous linear endomorphisms and difference equations over the completion of $\mathbf{F}_q[T]$. (English summary) **2001i:11145**

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Dragović, Branko G. (*with* Nešić, Ljubiša) p-adic and adelic generalization of quantum cosmology. (English and Russian summaries) **2001g:83058**
Kochubei, A. N. Heat equation in a p-adic ball. (English summary) **2001g:60180**
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11Txx Finite fields and commutative rings (number-theoretic aspects)

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11T06 Polynomials

Bach, Eric (*with* von zur Gathen, Joachim; Lenstra, Hendrik W., Jr.) Factoring polynomials over special finite fields. (English summary) **2001k:11252**
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Biró, András On polynomials over prime fields taking only two values on the multiplicative group. (English summary) **2001i:11146**
Chao, Chong-Yun (*with* Zhang, Hong[1]) An algorithm for polynomials that commute with a permutation polynomial over a finite field. (English summary) **2001c:11129**
Cohen, Stephen D. (*with* Hachenberger, Dirk) The dynamics of linearized polynomials. (English summary) **2001a:11195**
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Hachenberger, Dirk *see* **Cohen, Stephen D., 2001a:11195**
Holder, Markus Chr. ★ Arithmetik grossgradiger Polynome über kleinen endlichen Körpern. (German) [Arithmetic of high-degree polynomials over small finite fields] **2001m:11212**
Lenstra, Hendrik W., Jr. *see* **Bach, Eric et al., 2001k:11252**
Panario, Daniel (*with* Gourdon, Xavier; Flajolet, Philippe) An analytic approach to smooth polynomials over finite fields. (English summary) **2001e:11119**
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Reifegerste, Astrid On an involution concerning pairs of polynomials over $\mathbf{F}_2$. (English summary) **2001a:11196**
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Ayad, Mohamed (*with* McQuillan, Donald L.) Irreducibility of the iterates of a quadratic polynomial over a field. **2001c:11031**
Chou, Wun-Seng (*with* Cohen, Stephen D.) Primitive elements with zero traces. (English summary) **2001k:11257**
Cohen, Stephen D. *see* **Chou, Wun-Seng, 2001k:11257**
Gao, Shuhong (*with* Howell, Jason) A general polynomial sieve. (English summary) **2001h:11156**
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Meidl, Wilfried On maximal abelian permutation groups of the finite field F_q containing all Dickson permutations. (English summary) **2001e:20005**
Ren, Debin (*with* Sun, Qi; Yuan, Ping Zhi) Number of zeros of diagonal polynomials over finite fields. (English summary) **2001k:11055**
Shparlinski, Igor E. Computing Jacobi symbols modulo sparse integers and polynomials and some applications. (English summary) **2001f:11202**
Stanley, Richard P. Spanning trees and a conjecture of Kontsevich. (English summary) **2001g:05109**
Stein, Greg Using the theory of cyclotomy to factor cyclotomic polynomials over finite fields. (English summary) **2001j:11119**
Sun, Qi *see* **Ren, Debin et al., 2001k:11055**
Teitloff, Timothy C. Permutation polynomials on symmetric matrices. (English summary) **2001h:11029**
Yuan, Ping Zhi *see* **Ren, Debin et al., 2001k:11055**

11T22 Cyclotomy

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Gurak, S. On the factors $\Phi^{(jk)(m)}$ of the period polynomial for finite fields. **2001c:11130**
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Nicolas, Jean-Louis (*with* Terjanian, Guy) Une majoration de la longueur des polynômes cyclotomiques. (English summary) [Upper bound for the length of cyclotomic polynomials] **2001a:11197**
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Robbins, Neville On partitions and cyclotomic polynomials. (English summary) **2001g:11158**
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Thaine, F. Families of irreducible polynomials of Gaussian periods and matrices of cyclotomic numbers. (English summary) **2001a:11179**
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11T23 Exponential sums

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Logachev, O. A. (*with* Sal'nikov, A. A.; Yashchenko, V. V.) On properties of Weil sums over finite fields and finite abelian groups. (Russian. Russian summary) **2001k:11254**
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Varadharajan, Vijay *see* **Le, Tri Van et al., 2001d:94017**
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11Y16 Algorithms; complexity [see also 68Q25]

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Bian, Zheng Zhong *see* **Lu, Chen et al.**
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Chebrakov, Y. V. (*with* Shmagin, V. V.) Analytical approach to description of some combinatorial and number-theoretic computative algorithms. (English summary) (*see* **2001d:11005**)
Dai, Qi Jun *see* **Lu, Chen et al.**
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Huang, Ming-Deh A. (*with* Rao, Ashwin J.) Interpolation of sparse multivariate polynomials over large finite fields with applications. (English summary) **2001b:11115**
— *see also* **Adleman, Leonard M., 2001c:11136a** *and* **2001c:11136b**
Igarashi, Yoshihide *see* **Morita, Yusuke et al., (2001f:68014)**
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Parks, Michael Number-theoretic test generation for directed rounding. (English summary) **2001e:11124**
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Shparlinski, Igor E. Computing Jacobi symbols modulo sparse integers and polynomials and some applications. (English summary) **2001f:11202**
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Cheon, Jung Hee *see* **Kim, Hwan Joon et al., 2001j:11035**
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Froda, Sorana M. On assessing the performance of randomized algorithms. (English summary) **2001j:68145**
Gallant, Robert (*with* Lambert, Robert; Vanstone, Scott A.) Improving the parallelized Pollard lambda search on anomalous binary curves. (English summary) **2001a:14063**
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— (*with* Panario, Daniel) Factoring polynomials over finite fields: a survey. (English summary) **2001k:11253**
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— (*with* Ron, Dana; Sudan, Madhu) Chinese remaindering with errors. (English summary) **2001k:11005**
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Holder, Markus Chr. ★ Arithmetik grossgradiger Polynome über kleinen endlichen Körpern. (German) [Arithmetic of high-degree polynomials over small finite fields] **2001m:11212**
Kim, Hwan Joon (*with* Cheon, Jung Hee; Hahn, Sang Geun) Elliptic curve lifting problem and its applications. **2001j:11035**
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Kochergin, V. V. On the complexity of the computation of systems of monomials with restrictions on the powers of the variables. (Russian. Russian summary) **2001d:68103**
Lambert, Robert *see* **Gallant, Robert et al., 2001a:14063**
Lercier, Reynald (*with* Morain, F.) Computing isogenies between elliptic curves over $\mathbf{F}_{p^n}$ using Couveignes's algorithm. (English summary) **2001a:11101**
Meier, Andreas (*with* Sorge, Volker) Exploring properties of residue classes. (English summary) (*see* **2001j:68008**)
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Storjohann, Arne A solution to the extended GCD problem with applications. (English summary) **2001j:68150**
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Sudan, Madhu *see* **Goldreich, Oded et al.**, **2001i:68050** *and* **2001k:11005**
Takahashi, Daisuke A fast algorithm for computing large Fibonacci numbers. (English summary) **2001g:11013**
Vallée, Brigitte *see* **Akhavi, Ali**, **2001h:68052**
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Zhukov-Emel'yanov, O. D. On the sign problem in a residue system. (Russian. Russian summary) **2001b:11003**

11Y35 Analytic computations

Bays, Carter (*with* Hudson, Richard H.) A new bound for the smallest x with $\pi(x) > \mathrm{li}(x)$. (English summary) **2001c:11138**
Coppo, Marc-Antoine Sur les sommes d'Euler divergentes. (English summary) [On divergent Euler sums] **2001h:11158**
Hudson, Richard H. *see* **Bays, Carter**, **2001c:11138**
Karatsuba, E. A. Fast computation of the values of the Hurwitz zeta function and Dirichlet L-series. (Russian. Russian summary) **2001i:11152**
Shail, R. A class of infinite sums and integrals. (English summary) **2001g:11195**
Tăbîrcă, Sabin (*with* Tabirca, Tatiana) On the convergence of the Euler harmonic series. (English summary) **2001c:11139**
Tabirca, Tatiana *see* **Tăbîrcă, Sabin**, **2001c:11139**

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Booker, Andrew R. A test for identifying Fourier coefficients of automorphic forms and application to Kloosterman sums. (English summary) **2001k:11077**
Borwein, Jonathan M. (*with* Bradley, David M.; Crandall, Richard E.) Computational strategies for the Riemann zeta function. (English summary) **2001h:11110**
Borwein, Peter B. An efficient algorithm for the Riemann zeta function. (English summary) **2001f:11143**
Bradley, David M. *see* **Borwein, Jonathan M. et al.**, **2001h:11110**
Conrey, J. Brian (*with* Farmer, D. W.) Mean values of L-functions and symmetry. **2001i:11111**
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Dobrovol'skiĭ, N. M. (*with* Rodionova, O. V.) On a finite Fourier series and its applications. (Russian. English and Russian summaries) **2001c:65174**
Dummit, David S. (*with* Tangedal, Brett A.) Computing the lead term of an abelian L-function. (English summary) **2001d:11110**
Elkies, Noam D. Shimura curve computations. (English summary) **2001a:11099**
Farmer, D. W. *see* **Conrey, J. Brian**, **2001i:11111**
Kanou, Naruo Transcendency of zeros of Eisenstein series. (English summary) **2001k:11068**
Kim, Yongsup Infinite series associated with psi and zeta functions. (English summary) **2001k:33002**
Kumagai, Hiroshi On rapidly convergent series expressions for zeta- and L-values. (*see* **2001f:11003**)
Louboutin, Stéphane (*with* Okazaki, Ryotaro) Determination of all quaternion CM-fields with ideal class groups of exponent 2. **2001c:11120**
Moree, Pieter Approximation of singular series and automata. (English summary) **2001f:11204**
(Niklasch, Gerhard) *see* **Moree, Pieter**, **2001f:11204**
Okazaki, Ryotaro *see* **Louboutin, Stéphane**, **2001c:11120**
Paris, R. B. New asymptotic formulas for the Riemann zeta function on the critical line. (English summary) **2001k:11162**
Rivera F., Antonio *see* **Aguilar S., Enrique**, **2001f:11142**
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Srivastava, Hari M. (*with* Tsumura, Hirofumi) New rapidly convergent series representations for $\zeta(2n+1)$, $L(2n,\chi)$ and $L(2n+1,\chi)$. (English summary) **2001g:11135**
— Some families of rapidly convergent series representations for the zeta functions. (English summary) **2001k:11163**
Tangedal, Brett A. *see* **Dummit, David S.**, **2001d:11110**
Tsumura, Hirofumi *see* **Srivastava, Hari M.**, **2001g:11135**
Varga, Richard S. Scientific computations related to the Riemann hypothesis. (*see* **2001f:65004**)

11Y40 Algebraic number theory computations

Buhler, Joe (*with* Crandall, Richard E.; Ernvall, Reijo; Metsänkylä, Tauno; Shokrollahi, M. Amin) Irregular primes and cyclotomic invariants to 12 million. (English summary) **2001m:11220**
Crandall, Richard E. *see* **Buhler, Joe et al.**, **2001m:11220**
Daberkow, Mario On computations in Kummer extensions. (English summary) **2001m:11221**
Ernvall, Reijo *see* **Buhler, Joe et al.**, **2001m:11220**
Granville, Andrew (*with* Mollin, R. A.; Williams, Hugh C.) An upper bound on the least inert prime in a real quadratic field. (English summary) **2001d:11123**
Jones, John William (*with* Roberts, David P.) Timing analysis of targeted Hunter searches. (English summary) **2001a:11204**
Louboutin, Stéphane Computation of relative class numbers of imaginary cyclic fields of 2-power degrees. (English summary) **2001a:11205**
Metsänkylä, Tauno *see* **Buhler, Joe et al.**, **2001m:11220**
Mollin, R. A. *see* **Granville, Andrew et al.**, **2001d:11123**
Neis, Stefan Reducing ideal arithmetic to linear algebra problems. (English summary) **2001b:11116**
van der Poorten, Alfred J. (*with* te Riele, H. J. J.; Williams, Hugh C.) Computer verification of the Ankeny-Artin-Chowla conjecture for all primes less than 100 000 000 000. (English summary) **2001j:11125**
te Riele, H. J. J. *see* **van der Poorten, Alfred J. et al.**, **2001j:11125**
Roberts, David P. *see* **Jones, John William**, **2001a:11204**
Selmane, Schehrazad Tenth degree number fields with quintic fields having one real place. (English summary) **2001g:11196**
Shokrollahi, M. Amin *see* **Buhler, Joe et al.**, **2001m:11220**
Wildanger, K. Über das Lösen von Einheiten- und Indexformgleichungen in algebraischen Zahlkörpern. (English summary) [Solving unit and index form equations in algebraic number fields] **2001c:11140**
Williams, Hugh C. *see* **Granville, Andrew et al.**, **2001d:11123** *and* **van der Poorten, Alfred J. et al.**, **2001j:11125**

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Acciaro, Vincenzo (*with* Fieker, Claus) Finding normal integral bases of cyclic number fields of prime degree. (English summary) **2001i:11125**
(Belabas, Karim) *see* **Browkin, Jerzy**, **2001a:11189**
Broberg, Niklas Some examples related to the *abc*-conjecture for algebraic number fields. (English summary) **2001a:11177**
Browkin, Jerzy Computing the tame kernel of quadratic imaginary fields. (English summary) **2001a:11189**
Cohen, Henri (*with* Diaz y Diaz, Francisco; Olivier, Michel Jacques) A table of totally complex number fields of small discriminants. (English summary) **2001c:11119**
Coulson, David (*with* Goodman, Oliver A.; Hodgson, Craig D.; Neumann, Walter D.) Computing arithmetic invariants of 3-manifolds. (English summary) **2001c:57014**
Diaz y Diaz, Francisco *see* **Cohen, Henri et al.**, **2001c:11119**
Dummit, David S. (*with* Tangedal, Brett A.) Computing the lead term of an abelian L-function. (English summary) **2001d:11110**
Fieker, Claus *see* **Acciaro, Vincenzo**, **2001i:11125**
Gaál, István (*with* Pohst, Michael E.) Computing power integral bases in quartic relative extensions. (English summary) **2001i:11124**
— Power integral bases in cubic relative extensions. (English summary) **2001m:11182**
(Gangl, Herbert) *see* **Browkin, Jerzy**, **2001a:11189**
Goodman, Oliver A. *see* **Coulson, David et al.**, **2001c:57014**
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Jedelský, David (*with* Skula, Ladislav) Some results from the tables of irregularity index of a prime. (English summary) **2001k:11212**
Lefeuvre, Yann (*with* Louboutin, Stéphane) The class number one problem for the dihedral CM-fields. (English summary) **2001k:11224**
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— (*with* Park, Young-Ho) Class number problems for dicyclic CM-fields. (English summary) **2001m:11196**
— *see also* **Lefeuvre, Yann**, **2001k:11224**
Mizusawa, Yasushi On Greenberg's conjecture on a certain real quadratic field. (English summary) **2001k:11216**
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Olivier, Michel Jacques *see* **Cohen, Henri et al.**, **2001c:11119**
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Pohst, Michael E. On Legendre's equation over number fields. (English summary) **2001f:11106**
— *see also* **Gaál, István**, **2001i:11124**
Scheidler, R. Decision problems in quadratic function fields of high genus. (English summary) **2001e:11112**
Selmane, Schehrazad Quadratic extensions of totally real quintic fields. (English summary) **2001g:11167**
Skula, Ladislav *see* **Jedelský, David**, **2001k:11212**
Tangedal, Brett A. *see* **Dummit, David S.**, **2001d:11110**

11Y50 Computer solution of Diophantine equations

Bernstein, Daniel J. Enumerating solutions to $p(a)+q(b)=r(c)+s(d)$. (English summary) **2001f:11203**
Hajdu, Lajos (*with* Pintér, Á.) Combinatorial Diophantine equations. (English summary) **2001h:11159**
Koyama, Kenji On searching for solutions of the Diophantine equation $x^3+y^3+2z^3=n$. (English summary) **2001a:11206**
Krivoĭ, S. L. On some methods for solving and criteria for the compatibility of systems of linear Diophantine equations in the domain of natural numbers. (Russian. English and Ukrainian summaries) **2001a:11207**
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Poulakis, Dimitrios (*with* Voskos, Evaggelos) On the practical solution of genus zero Diophantine equations. (English summary) **2001j:11126**
Rudenskaya, O. G. On algorithms for the solution of two general classes of Diophantine equations. (Russian. English and Ukrainian summaries) **2001d:11124**
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Dujella, Andrej A parametric family of elliptic curves. **2001c:11062**
— (*with* Pethő, Attila) Integer points on a family of elliptic curves. (English summary) **2001f:11087**
Gaál, István (*with* Pohst, Michael E.) Computing power integral bases in quartic relative extensions. (English summary) **2001i:11124**
— Solving index form equations in fields of degree 9 with cubic subfields. (English summary) **2001g:11041**

— An efficient algorithm for the explicit resolution of norm equations. (English summary) **2001k:11047**
— Power integral bases in cubic relative extensions. (English summary) **2001m:11182**
Kida, Masanari Computing elliptic curves having good reduction everywhere over quadratic fields. II. (English summary) **2001k:11100**
Matthews, Keith The Diophantine equation $x^2 - Dy^2 = N$, $D > 0$. (English summary) **2001i:11029**
Mignotte, Maurice *see* **Bugeaud, Yann, 2001f:11050**
Mitchell, Patrick Three dimensional lattice reduction with an arbitrary norm. (English summary) **2001a:11113**
Pethő, Attila (*with* Zimmer, Horst G.) S-integer points on elliptic curves, theory and practice. (English summary) **2001f:11089**
— *see also* **Dujella, Andrej, 2001f:11087**
Pohst, Michael E. *see* **Gaál, István, 2001i:11124**
Wildanger, K. Über das Lösen von Einheiten- und Indexformgleichungen in algebraischen Zahlkörpern. (English summary) [Solving unit and index form equations in algebraic number fields] **2001c:11140**
Zhang, Ming Zhi A note on the equation $\varphi(n) + \sigma(n) = 3n$. (Chinese. English and Chinese summaries) **2001a:11009**
Zimmer, Horst G. *see* **Pethő, Attila, 2001f:11089**

11Y55 Calculation of integer sequences

Cohen, Henri (*with* Rodriguez Villegas, Fernando; Zagier, Don) Convergence acceleration of alternating series. (English summary) **2001m:11222**
Fennessey, Eric J. *see* **Larcombe, Peter J., 2001g:11197**
Larcombe, Peter J. (*with* Fennessey, Eric J.) Using an old combinatorial problem to teach analysis: Euler's borderline convergence. (English summary) **2001g:11197**
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Dubner, Harvey (*with* Granlund, Torbjörn) Primes of the form $(b^n + 1)/(b + 1)$. (English summary) **2001j:11123**
Granlund, Torbjörn *see* **Dubner, Harvey, 2001j:11123**
Iannucci, Douglas E. The Kaprekar numbers. (English summary) **2001e:11010**
Somer, Lawrence (*with* Carlip, Walter) Stability of second-order recurrences modulo p^r. (English summary) **2001d:11020**

11Y60 Evaluation of constants

Adler, Charles L. (*with* Tanton, James S.) π is the minimum value for pi. **2001c:11141**
Almkvist, Gert Computing the 10^{10}th hexadecimal of π without computing the preceding ones. (Swedish. English summary) **2001d:11125**
Beukers, Frits A rational approach to π. (English summary) **2001k:11266**
Cvijović, Djurdje (*with* Klinowski, Jacek) Inequalities for the Landau constants. (English summary) **2001e:11125**
Ewing, John (*with* Foias, Ciprian) An interesting serendipitous real number. **2001k:11267**
Foias, Ciprian *see* **Ewing, John, 2001k:11267**
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Lesko, James A series for $\ln k$.
Li, Chun Lan (*with* Li, Yong Ci; Hou, Shu Guo) The extension of the Stirling formula. (Chinese. English and Chinese summaries)
Li, Yong Ci *see* **Li, Chun Lan et al.**
Moree, Pieter Approximation of singular series and automata. (English summary) **2001f:11204**
(Niklasch, Gerhard) *see* **Moree, Pieter, 2001f:11204**
Prodinger, Helmut On Cantor's singular moments. (English summary) **2001e:11126**
Romik, Dan Stirling's approximation for $n!$: the ultimate short proof? **2001c:11142**
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11Y65 Continued fraction calculations

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11Y70 Values of arithmetic functions; tables

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12–XX Field theory and polynomials

12–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Dilcher, Karl) *see* **Herman, Jiřiet al., 2001k:12001**
Herman, Jiří (*with* Kučera, Radan; Šimša, Jaromír) ★ Equations and inequalities. (English summary) **2001k:12001**
Kučera, Radan *see* **Herman, Jiřiet al., 2001k:12001**
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Escofier, Jean-Pierre ★ Galois theory. (English summary) **2001h:12004**
Scherk, John ★ Algebra. (English summary) **2001i:00002**
(Schneps, Leila) *see* **Escofier, Jean-Pierre, 2001h:12004**

12–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 12–03

Kleiner, Israel Field theory: from equations to axiomatization. II. **2001f:01033**
Serre, Jean-Pierre ★ Œuvres. Collected papers. IV. (French) **2001e:01037**

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Collected Works:
Serre, Jean-Pierre *see* **Serre, Jean-Pierre, 2001e:01037**

12–06 Proceedings, conferences, collections, etc.

(Matzat, B. H.) *see* **Algorithmic methods in Galois theory, 2001f:12001**
(McKay, John) *see* **Algorithmic methods in Galois theory, 2001f:12001**
(Yokoyama, Kazuhiro) *see* **Algorithmic methods in Galois theory, 2001f:12001**

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12Dxx Real and complex fields

12D05 Polynomials: factorization

Galligo, André Real factorization of multivariate polynomials with integer coefficients. (English and Russian summaries) **2001f:12002**
Seoane Sepúlveda, Juan Benigno The Euler factorization methods and their application to infinite products. (Spanish. English and Spanish summaries)

Items with secondary classifications in 12D05

Schinzel, Andrzej ★ Polynomials with special regard to reducibility. (English summary) **2001h:11135**
(Zannier, Umberto) *see* **Schinzel, Andrzej, 2001h:11135**

12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

Aron, Richard (*with* Gonzalo, Raquel; Zagorodnyuk, A. V.) Zeros of real polynomials. (English summary) **2001k:12002**
Becker, Eberhard (*with* Powers, Victoria; Wörmann, Thorsten) Deciding positivity of real polynomials. (English summary) **2001a:12001**
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Ma, Yue Feng *see* **Ma, Zhao Kun**
Ma, Zhao Kun (*with* Ma, Yue Feng) A new method for finding roots of polynomial equations. (Chinese. English and Chinese summaries)
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Wörmann, Thorsten *see* **Becker, Eberhard et al., 2001a:12001**
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Yang, Lu (*with* Xia, Bican) An explicit criterion to determine the number of roots in an interval of a polynomial. (English summary) **2001m:12002**
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Zeng, Guang Xing Nonstandard decision methods for the solvability of real polynomial equations. (English summary) **2001f:12003**
Zhi, LiHong (*with* Wu, Wenda) A note on nearest singular polynomials. (English summary) **2001b:12001**
Zhulenev, S. V. On the uniqueness of the positive solution of an equation of nth degree. (Russian. Russian summary)

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DiPippo, Stephen A. (*with* Howe, Everett W.) Corrigendum: "Real polynomials with all roots on the unit circle and abelian varieties over finite fields" [J. Number Theory **73** (1998), no. 2, 426–450; MR 2000c:11101]. **Gleyse, B.** (*with* Moflih, M.) The exact computation of the number of zeros of a real polynomial in the open unit disk: an algebraic approach. (English summary) **2001c:65064**
Gwoździewicz, Janusz Growth at infinity of a polynomial with a compact zero set. **2001a:32010**
Hilano, Teluhiko Finding real roots of polynomials. (Japanese) (*see* **2001d:00048**)
Howe, Everett W. *see* **DiPippo, Stephen A.**
Johnson, Jeremy R. (*with* Krandick, Werner) Polynomial real root isolation using approximate arithmetic. (English summary) (*see* **2001i:68010**)
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McKay, John (*with* Stauduhar, Richard) Finding relations among the roots of an irreducible polynomial. (English summary) (*see* **2001i:68010**)
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Terui, Akira Computation of approximate real roots of real polynomials with error terms and their applications. (Japanese. Japanese summary) (*see* **2001d:00048**)

12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [see also 11Exx]

Cimprič, Jaka Archimedean preorderings in non-commutative semialgebraic geometry. (English summary) **2001a:12002**
Gondard-Cozette, Danielle (*with* Marshall, Murray) Towards an abstract description of the space of real places. (English summary) **2001i:12001**
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Zeng, Guang Xing The structure of ordered fields satisfying the infinite-dimensional real Nullstellensatz. II. (Chinese. English and Chinese summaries) **2001e:12001**

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Fitzgerald, Robert W. Torsion-free modules over reduced Witt rings. (English summary) **2001i:11046**
Leung, Ka Hin Forms and Baer ordered $*$-fields. (English summary) **2001f:16036**
Marshall, Murray $*$-orderings on a ring with involution. (English summary) **2001b:13032**
Miraglia, Francisco *see* **Dickmann, M., 2001c:11052**
Monnier, Jean-Philippe On Lam's conjecture concerning signatures of quadratic forms. (English summary) **2001g:11056**
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Pambuccian, Victor Affine super-Pythagorean geometry. **2001d:51002**
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Quéguiner-Mathieu, Anne Formes quadratiques et invariants de corps. [Quadratic forms and invariants of fields] **2001m:11045**
Reznick, Bruce Some concrete aspects of Hilbert's 17th Problem. (English summary) **2001i:11042**
Smith, Tara L. *see* **Craven, Thomas C., 2001a:12003**

12D99 None of the above, but in this section

Powers, Victoria (*with* Reznick, Bruce) Polynomials that are positive on an interval. **2001b:12002**
Reznick, Bruce *see* **Powers, Victoria, 2001b:12002**
Yoo, Won Sok On a kind of function equations and the fundamental theorem of algebra. (English summary)

Items with secondary classifications in 12D99

D'Angelo, John P. Positivity conditions and squared norms of holomorphic polynomial mappings. (English summary) **2001h:32025**

12Exx General field theory

Items with secondary classifications in 12Exx

Seo, Changho *see* **Sim, Joogeol et al.**
Sim, Joogeol (*with* Seo, Changho; Yi, Okyeon; Won, Dongho) On proposition and comparison of trace computation methods in finite field GF(2^m). (English summary)
Won, Dongho *see* **Sim, Joogeol et al.**
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12E05 Polynomials (irreducibility, etc.)

Bernstein, Joseph N. Commuting polynomials [Kvant **1979**, no. 4, 19–23]. (*see* **2001b:00011**)
Bilu, Yuri F. Quadratic factors of $f(x) - g(y)$. **2001d:12003**
von zur Gathen, Joachim (*with* Gutierrez, Jaime; Rubio, Rosario) On multivariate polynomial decomposition. (English summary) **2001h:12001**
Gomez-Calderon, Javier On the decomposition of $x^d + a_e x^e + \cdots + a_1 x + a_0$. (English summary) **2001i:12002**
Gutierrez, Jaime *see* **von zur Gathen, Joachim et al., 2001h:12001**
Kubota, Tomio On the irreducibility of cyclotomic polynomials. (Japanese. English summary)
Le, Mao Hua (*with* Li, Zhong[3]) The degrees of irreducible factors for composite polynomials. (Chinese. English and Chinese summaries)
Li, Zhong[3] *see* **Le, Mao Hua**
Mollov, Todor Zh. *see* **Nachev, Nako A., 2001m:12003**
Nachev, Nako A. (*with* Mollov, Todor Zh.) Decomposition of binomials over a field in irreducible factors. (English summary) **2001m:12003**
Rubio, Rosario *see* **von zur Gathen, Joachim et al., 2001h:12001**
Winkler, Joab R. A resultant matrix for scaled Bernstein polynomials. (English summary) **2001k:12003**

Items with secondary classifications in 12E05

Cavachi, Marius On a special case of Hilbert's irreducibility theorem. (English summary) **2001a:12005**
Filaseta, M. (*with* Ford, Kevin B.; Konyagin, Sergei V.) On an irreducibility theorem of A. Schinzel associated with coverings of the integers. (English summary) **2001g:11032**
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Toshimitsu, Takeshi Remarks on: "On a functional equation relating a Laurent series $f(x)$ to $f(x^m)$" [Aequationes Math. **55** (1998), no. 1, 15–43; MR 99e:39085] by U. Zannier. (English summary) **2001e:39010**
(Zannier, Umberto) *see* **Toshimitsu, Takeshi, 2001e:39010** *and* **Schinzel, Andrzej, 2001h:11135**

12E10 Special polynomials

Ge, Quan Wen Majorized consistent polynomials. (Chinese. English and Chinese summaries)
Kochetkov, Yu. Yu. On the geometry of a class of plane trees. (Russian) **2001c:12001**

Items with secondary classifications in 12E10

Ayad, Mohamed (*with* McQuillan, Donald L.) Irreducibility of the iterates of a quadratic polynomial over a field. **2001c:11031**
Gomez-Calderon, Javier On the decomposition of $x^d + a_e x^e + \cdots + a_1 x + a_0$. (English summary) **2001i:12002**
McQuillan, Donald L. *see* **Ayad, Mohamed, 2001c:11031**
Schinzel, Andrzej On reducible trinomials. II. (English summary) **2001k:11207**

12E12 Equations

Guo, Shi Guang Linear factorization of λ-polynomial over quaternionic field. (English and Chinese summaries)
He, Xian Xiao (*with* Wang, De Yin) A type of equations unsolvable in radicals. (Chinese. English and Chinese summaries)
Wang, De Yin *see* **He, Xian Xiao**

12E15 Skew fields, division rings [see also 11R52, 11R54, 11S45, 16Kxx]

Benz, Walter A characterization of monomorphisms of skew fields. (English summary) **2001d:12004**
Craven, Thomas C. (*with* Smith, Tara L.) Pythagorean $*$-fields. (English summary) **2001a:12003**
Huang, Long Xuan The generators as commutators of involutions in two-dimensional skew fields. (Chinese. English and Chinese summaries)
Kolesnikov, P. S. The Makar-Limanov's construction of algebraically closed skew field via Mal'cev-Newmann series. (English summary) **2001i:12003**
Saltman, David J. A nonrational field, answering a question of Hajja. **2001b:12003**
Smith, Tara L. *see* **Craven, Thomas C., 2001a:12003**
Tignol, Jean-Pierre Pfaffiens et déterminant de E. H. Moore. (English summary) [Pfaffians and the determinants of E. H. Moore] **2001a:12004**
Zheglov, A. B. Higher local skew fields. **2001m:12004**

Items with secondary classifications in 12E15

Kahn, Bruno Comparison of some field invariants. **2001i:16035**
Kollischan, Karl Action of classical groups on varieties associated with skew field extensions. (English summary) **2001b:11028**
Koprowski, Przemysław Sums of squares of pure quaternions. (English summary) **2001f:11056**
Marshall, Murray $*$-orderings on a ring with involution. (English summary) **2001b:13032**
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12E20 Finite fields (field-theoretic aspects)

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Abhyankar, Shreeram Shankar (*with* Sundaram, Ganapathy S.) Galois groups of generalized iterates of generic vectorial polynomials. (English summary) **2001k:12004**
Dobbs, David E. Not all p-vectors decompose. (English summary) **2001i:15036**
Gao, Shuhong Abelian groups, Gauss periods, and normal bases. (English summary) **2001j:11121**
Kaltofen, Erich (*with* Shoup, Victor) Fast polynomial factorization over high algebraic extensions of finite fields. (English summary) **2001i:68174**
Kern, Eric (*with* Mignotte, Maurice) Applications of the representation of finite fields by matrices. (English and French summaries) **2001d:15016**
Mignotte, Maurice *see* **Kern, Eric, 2001d:15016**
Shoup, Victor *see* **Kaltofen, Erich, 2001i:68174**
Sundaram, Ganapathy S. *see* **Abhyankar, Shreeram Shankar, 2001k:12004**
Sziklai, Péter A lemma on the randomness of d-th powers in GF(q), $d \mid q - 1$. (English summary) **2001m:11214**

12E25 Hilbertian fields; Hilbert's irreducibility theorem

Cavachi, Marius On a special case of Hilbert's irreducibility theorem. (English summary) **2001a:12005**
Haran, Dan Hilbertian fields under separable algebraic extensions. **2001a:12006**
Huang, Ming-Deh A. (*with* Wong, Yiu-Chung) Extended Hilbert irreducibility and its applications. (English summary) **2001h:12002**
Wong, Yiu-Chung *see* **Huang, Ming-Deh A., 2001h:12002**

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Black, Elena V. On semidirect products and the arithmetic lifting property. (English summary) **2001d:12008**
Schinzel, Andrzej ★ Polynomials with special regard to reducibility. (English summary) **2001h:11135**
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12E30 Field arithmetic

Contessa, Maria (*with* Mott, Joe L.; Nichols, Warren) Multiplicative groups of fields. **2001f:12004**
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12E99 None of the above, but in this section

Pinotsis, George The condition of isomorphism of a class of hyperfields with quotient hyperfields. **2001h:12003**
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Sarkaria, Karanbir Singh On some questions concerning a functional equation involving Möbius transformations. (English summary) **2001m:39081**

12Fxx Field extensions

12F05 Algebraic extensions

Al-Khamees, Yousif (*with* Mordeson, John N.) Reduced fields, primitive and fuzzy Galois theory. (English summary) **2001d:12005**
Fendrich, Hans Zu einem Satz von Isaacs über das Casus-Irreducibilis Phänomen. (English summary) [On a theorem of Isaacs concerning the casus irreducibilis phenomenon] **2001f:12005**
Mordeson, John N. *see* **Al-Khamees, Yousif, 2001d:12005**
Sury, B. On an example of Jacobson. **2001a:12007**

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Markšaitis, H. Galois groups of p-extensions with two ramification points. (Russian. Russian and Lithuanian summaries) **2001k:11227**
Mollov, Todor Zh. *see* **Nachev, Nako A., 2001m:12003**
Nachev, Nako A. (*with* Mollov, Todor Zh.) Decomposition of binomials over a field in irreducible factors. (English summary) **2001m:12003**
Narkiewicz, Władysław Finite polynomial orbits. A survey. (English summary) **2001e:11025**
Ohm, Jack On the vector space defect for valued field extensions. (English summary) **2001e:12006**

12F10 Separable extensions, Galois theory

Abhyankar, Shreeram Shankar (*with* Loomis, Paul A.) Twice more nice equations for nice groups. (English summary) **2001a:12008**
— (*with* Sundaram, Ganapathy S.) Galois groups of generalized iterates of generic vectorial polynomials. (English summary) **2001k:12004**
Barrera Mora, Fernando *see* **Lam Estrada, Pablo, (2001d:00036)**
Black, Elena V. Lifting wreath product extensions. (English summary) **2001m:12005**
Boston, Nigel (*with* Perry, David Michael) Maximal 2-extensions with restricted ramification. (English summary) **2001k:12005**
Brunat, Josep M. (*with* Lario, Joan-C.) Galois graphs: walks, trees and automorphisms. (English summary) **2001c:12002**
Cohen, Stephen D. (*with* Movahhedi, A.; Salinier, A.) Galois groups of trinomials. (English summary) **2001b:12004**
Colin, Antoine Relative resolvents and partition tables in Galois group computations. (English summary) **2001j:12001**
Deschamps, Bruno Clôtures totalement réelles des corps de nombres ordonnables. (English summary) [Totally real closures of ordered number fields] **2001d:12006**
Ducos, Lionel Construction de corps de décomposition grâce aux facteurs de résolvantes. (English and French summaries) [Construction of splitting fields using factorized resolvents] **2001c:12003**
Dussaud, René Transformations birationnelles conjuguées. [Conjugate birational transformations] **2001d:12007**
Efrat, Ido Pro-p Galois groups of function fields over local fields. (English summary) **2001g:12001**
Escofier, Jean-Pierre ★ Galois theory. (English summary) **2001h:12004**
Geissler, Katharina (*with* Klüners, Jürgen) Galois group computation for rational polynomials. (English summary) **2001k:12006**
Hagedorn, Thomas R. General formulas for solving solvable sextic equations. (English summary) **2001k:12007**
Haran, Dan (*with* Jarden, Moshe) The absolute Galois group of $C(x)$. (English summary) **2001k:12008**
Inglis, Nicholas F. J. Symplectic groups as Galois groups. **2001f:12006**
Jarden, Moshe The projectivity of the fundamental group of an affine line. **2001g:12002**
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Lario, Joan-C. *see* **Brunat, Josep M., 2001c:12002**
Ledet, Arne Generic extensions and generic polynomials. (English summary) **2001k:12009**
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López Bautista, Pedro Ricardo (*with* Villa-Salvador, Gabriel Daniel) On the Galois module structure of semisimple holomorphic differentials. (English summary) **2001f:12007**
Massy, Richard (*with* Monier-Derviaux, Sylvie) Descente et parallélogramme galoisiens. (English and French summaries) [Galois descent and parallelograms] **2001m:12006**
Monier-Derviaux, Sylvie *see* **Massy, Richard, 2001m:12006**
Movahhedi, A. *see* **Cohen, Stephen D. et al., 2001b:12004**
Nakano, Shin On generic cyclic polynomials of odd prime degree. (English summary) **2001h:12005**
Perry, David Michael *see* **Boston, Nigel, 2001k:12005**
Rennert, Nicolas (*with* Valibouze, Annick) Calcul de résolvantes avec les modules de Cauchy. (English and French summaries) [Computing resolvents using Cauchy modules] **2001e:12002**
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Spearman, Blair K. (*with* Williams, Kenneth S.) Dihedral quintic polynomials and a theorem of Galois. (English summary) **2001c:12004**
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Valibouze, Annick Étude des relations algébriques entre les racines d'un polynôme d'une variable. (English and French summaries) [Study of the algebraic relations among the roots of a univariate polynomial] **2001b:12005**
— *see also* **Rennert, Nicolas, 2001e:12002**
Villa-Salvador, Gabriel Daniel *see* **López Bautista, Pedro Ricardo, 2001f:12007**
Williams, Kenneth S. *see* **Spearman, Blair K., 2001c:12004**
Yakovlev, Anatoliĭ Vladimirovich Embedding of a cyclic extension into a cyclic extension. (Russian. English and Russian summaries) **2001b:12006**

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Childs, Lindsay N. ★ Taming wild extensions: Hopf algebras and local Galois module theory. (English summary) **2001e:11116**
Davenport, J. H. (*with* Smith, Geoff C.) Fast recognition of alternating and symmetric Galois groups. (English summary) **2001j:20113**
Dèbes, Pierre Some arithmetic properties of algebraic covers. (English summary) **2001b:14027**
Dee, Jonathan Φ-Γ modules for families of Galois representations. **2001m:12012**
Endo, Shizuo On the rationality of algebraic tori of norm type. **2001i:20093**
Ferreira, Vitor de Oliveira Tensor rings under field extensions. (English summary) **2001k:16016**
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Haran, Dan Hilbertian fields under separable algebraic extensions. **2001a:12006**
Hashimoto, Ki-Ichiro On Brumer's family of RM-curves of genus two. (English summary) **2001k:14056**
Karagueuzian, Dikran B. *see* **Adem, Alejandro et al., 2001m:12011**
Kula, Mieczysław On p-quaternionic pairings of non-elementary type. (English summary) **2001e:11040**
Lehobey, Frédéric Resolvent computations by resultants without extraneous powers. (English summary) (*see* **2001i:68010**)
Lewis, David W. (*with* McGarraghy, Seán) Annihilating polynomials, étale algebras, trace forms and the Galois number. (English summary) **2001g:11054**
McGarraghy, Seán Annihilating polynomials, trace forms and the Galois number. (English summary) **2001g:11055**
— *see also* **Lewis, David W., 2001g:11054**
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Miura, Kei Field theory for function fields of singular plane quartic curves. (English summary) **2001h:14029**
— (*with* Yoshihara, Hisao) Field theory for the function field of the quintic Fermat curve. (English summary) **2001f:14047b**
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Ohtani, Sachiko Constructing unramified Galois extensions over the maximal abelian extensions of algebraic number fields. (Japanese. Japanese summary) (*see* **2001h:00016**)
Rohrlich, David E. False division towers of elliptic curves. **2001f:11091a**
— A deformation of the Tate module. **2001f:11091b**
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Somodi, Marius Galois theory for fuzzy fields. (English summary)
Yoshihara, Hisao *see* **Miura, Kei, 2001f:14047a** *and* **2001f:14047b**

12F12 Inverse Galois theory

Abrashkin, V. A. On a local analogue of the Grothendieck conjecture. (English summary) **2001j:12003**
Black, Elena V. On semidirect products and the arithmetic lifting property. (English summary) **2001d:12008**
— (*with* Swallow, John R.) Relative embedding problems. (English summary) **2001m:12007**
Couveignes, Jean-Marc Boundary of Hurwitz spaces and explicit patching. (English summary) **2001m:12008**
Crespo, Teresa Extensions cycliques de degré 8. (English and French summaries) [Cyclic extensions of degree 8] **2001a:12009**
Dèbes, Pierre Regular realization of abelian groups with controlled ramification. (English summary) **2001b:12007**
Dettweiler, Michael (*with* Reiter, Stefan) An algorithm of Katz and its application to the inverse Galois problem. (English summary) **2001k:12010**
Efrat, Ido (*with* Fesenko, Ivan) Fields Galois-equivalent to a local field of positive characteristic. **2001i:12004**
Fesenko, Ivan *see* **Efrat, Ido, 2001i:12004**
Hashimoto, Ki-Ichiro (*with* Miyake, Katsuya) Inverse Galois problem for dihedral groups. (English summary) **2001a:12010**
— Inverse Galois problems related to dihedral groups. (Japanese) (*see* **2001h:00016**)
Ihara, Yasutaka Linear rigidity in inverse Galois problems and its applications (survey). (Japanese) (*see* **2001h:00016**)
Ishkhanov, V. V. (*with* Lur'e, B. B.) Universally solvable embedding problems with a cyclic kernel. (Russian. English and Russian summaries) **2001d:12009**
Kemper, Gregor (*with* Mattig, Elena) Generic polynomials with few parameters. (English summary) **2001h:12006**
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Ledet, Arne Generic and explicit realization of small p-groups. (English summary) **2001k:12011**
— Generic polynomials for Q_8-, QC-, and QQ-extensions. (English summary) **2001k:12012**
Lur'e, B. B. *see* **Ishkhanov, V. V., 2001d:12009**
Malle, Gunter *see* **Klüners, Jürgen, 2001i:12005**
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Michailov, Ivo M. (*with* Zyapkov, Nikola P.) Attendant embedding problems. **2001i:12006**
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— (*with* Zyapkov, Nikola P.) Embedding obstructions for the generalized quaternion group. (English summary) **2001b:12008**
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Vela, Montserrat Explicit solutions of Galois embedding problems by means of generalized Clifford algebras. (English summary) **2001m:12010**
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Bleher, Frauke M. (*with* Chinburg, Ted) Universal deformation rings and cyclic blocks. (English summary) **2001m:20013**
Chinburg, Ted *see* **Bleher, Frauke M., 2001m:20013**
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Darmon, Henri (*with* Mestre, Jean-François) Courbes hyperelliptiques à multiplications réelles et une construction de Shih. (English and French summaries) [Hyperelliptic curves with real multiplications and a construction of Shih] **2001i:11076**
Dieulefait, Luis (*with* Vila, Núria) Projective linear groups as Galois groups over $\mathbf{Q}$ via modular representations. (English summary) **2001k:11093**
Elkies, Noam D. Linearized algebra and finite groups of Lie type. I. Linear and symplectic groups. **2001a:20082**
Ershov, Yurii Leonidovich On amazing extensions of the field of rational numbers. (Russian) **2001h:12008**

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Mestre, Jean-François *see* **Darmon, Henri, 2001i:11076**
Nakano, Shin On generic cyclic polynomials of odd prime degree. (English summary) **2001h:12005**
Río, Anna *see* **Bayer, Pilar, 2001a:11191**
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12F15 Inseparable extensions

Items with secondary classifications in 12F15

Ferreira, Vitor de Oliveira Tensor rings under field extensions. (English summary) **2001k:16016**
Sancho de Salas, Fernando (*with* Sancho de Salas, Pedro J.) Desingularization and integrality of the automorphism scheme of a finite field extension. (English summary) **2001h:14056**
Sancho de Salas, Pedro J. *see* **Sancho de Salas, Fernando, 2001h:14056**

12F20 Transcendental extensions

Ahmad, Hamza (*with* Hajja, Mowaffaq; Kang, Ming-Chang) Rationality of some projective linear actions. (English summary) **2001e:12003**
Ershov, Yurii Leonidovich On amazing extensions of the field of rational numbers. (Russian) **2001h:12008**
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Rajaei, S. Mohseni Rational invariants of certain orthogonal groups over finite fields of characteristic two. (English summary) **2001c:12005**

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Chu, Huah (*with* Kang, Ming-Chang) Rationality of p-group actions. (English summary) **2001k:13008**
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Kemper, Gregor (*with* Malle, Gunter) Invariant fields of finite irreducible reflection groups. (English summary) **2001c:13006**
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Matusevich, Laura Felicia Rational summation of rational functions. (English summary) **2001i:12013**

12F99 None of the above, but in this section

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Steinwandt, Rainer (*with* Müller-Quade, Jörn) Freeness, linear disjointness, and implicitization—a classical approach. (English summary) **2001a:12011**

12Gxx Homological methods (field theory)

12G05 Galois cohomology [see also 14F22, 16H05, 16K50]

Adem, Alejandro (*with* Karagueuzian, Dikran B.; Mináč, Ján) On the cohomology of Galois groups determined by Witt rings. (English summary) **2001b:12010**
— (*with* Gao, Wenfeng; Karagueuzian, Dikran B.; Mináč, Ján) Field theory and the cohomology of some Galois groups. (English summary) **2001m:12011**
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Izhboldin, Oleg T. (*with* Vishik, Alexander) Quadratic forms with absolutely maximal splitting. (English summary) **2001m:11043**
Kula, Mieczyslaw On p-quaternionic pairings of non-elementary type. (English summary) **2001e:11040**
Monnier, Jean-Philippe On Lam's conjecture concerning signatures of quadratic forms. (English summary) **2001g:11056**
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12G10 Cohomological dimension

Items with secondary classifications in 12G10

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12Hxx Differential and difference algebra

12H05 Differential algebra [see also 13Nxx]

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Bouffet, Magali Un lemme de Hensel pour les opérateurs différentiels. (English and French summaries) [A Hensel lemma for differential operators] **2001f:12008**
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Chvalina, Jan (*with* Chvalinová, Ludmila) Multistructures determined by differential rings. (English summary)
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Gerdt, Vladimir P. Completion of linear differential systems to involution. (English summary) **2001d:12010**
Hubert, Evelyne Factorization-free decomposition algorithms in differential algebra. (English summary) **2001k:12013**
Kondrat'eva, M. V. (*with* Levin, A. B.; Mikhalëv, A. V.; Pankrat'ev, E. V.) ★ Differential and difference dimension polynomials. (English summary) **2001c:12006**
Lapunov, A. V. (*with* Mityunin, V. A.) Changes of generators in differential modules. (Russian. Russian summary)
Levin, A. B. Reduced Gröbner bases, free difference-differential modules and difference-differential dimension polynomials. (English summary) **2001g:12003**
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Pong, Wai Yan Complete sets in differentially closed fields. **2001c:12009**
van der Put, Marius Galois theory of differential equations, algebraic groups and Lie algebras. (English summary) **2001b:12012**
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Sadik, Brahim A bound for the order of characteristic set elements of an ordinary prime differential ideal and some applications. (English summary) **2001f:12009**
— Une note sur les algorithmes de décomposition en algèbre différentielle. (English and French summaries) [A note on decomposition algorithms in differential algebra] **2001a:12013**
Sankaran, N. Galois theory of differential fields—a survey. **2001f:12010**
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Strukova, T. A. Some generalizations of the concept of Gröbner bases to differential ideals. (Russian. Russian summary)
Vidunas, Raimundas Differential equations of order two with one singular point. (English summary) **2001i:12008**
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Keigher, William F. (*with* Pritchard, F. Leon) Hurwitz series as formal functions. (English summary) **2001f:13040**
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McGrail, Tracey The search for trivial types. (English summary) **2001g:03066**
— The model theory of differential fields with finitely many commuting derivations. (English summary) **2001h:03066**
Morales-Ruiz, J. J. Kovalevskaya, Liapounov, Painlevé, Ziglin and the differential Galois theory. (English summary) **2001i:37087**
Portier, Natacha Stabilité polynomiale des corps différentiels. (English summary) [Polynomial stability of differential fields] **2001i:03086**
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Reich, Ludwig *see* **Halter-Koch, Franz, 2001a:39060**
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12H10 Difference algebra [see also 39Axx]

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Levin, A. B. *see* **Kondrat'eva, M. V. et al., 2001c:12006**
Mikhalëv, A. V. *see* **Kondrat'eva, M. V. et al., 2001c:12006**
Pankrat'ev, E. V. *see* **Kondrat'eva, M. V. et al., 2001c:12006**

12H20 Abstract differential equations [see also 34Mxx]

Bekbaev, U. D. Equivalence and invariants of second-order linear partial differential equations in two variables under a change of variables. (Russian) **2001c:12010**
Compoint, Élie (*with* Singer, Michael F.) Relations linéaires entre solutions d'une équation différentielle. (English and French summaries) [Linear relations between solutions of a differential equation] **2001b:12013**
van Hoeij, Mark (*with* Ragot, Jean-François; Ulmer, Felix; Weil, Jacques-Arthur) Liouvillian solutions of linear differential equations of order three and higher. (English summary) **2001c:12011**
Nesterenko, Yu. V. Multiplicity estimates for solutions of algebraic differential equations.
Ragot, Jean-François *see* **van Hoeij, Mark et al., 2001c:12011**
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Abramov, Sergei A. (*with* Petkovšek, Marko; Ryabenko, A. A.) Special formal series solutions of linear operator equations. (English summary) **2001c:39036**
— m-sparse solutions of linear ordinary differential equations with polynomial coefficients. (English and French summaries) **2001b:34008**
— Eventually rational and m-sparse points of linear ordinary differential operators with polynomial coefficients. (English and French summaries) **2001j:34004**
Gokhman, D. Limits in differential fields of holomorphic germs. (English summary) **2001c:34188**
Hubert, Evelyne Essential components of an algebraic differential equation. (English summary) **2001k:34008**
Lomadze, Vakhtang Linear constant coefficient differential (or difference) equations. (English summary) **2001k:34018**
Moulin Ollagnier, Jean Rational integration of the Lotka-Volterra system. (English summary) **2001d:34017**
Petkovšek, Marko *see* **Abramov, Sergei A. et al., 2001c:39036**
Rieppo, Jarkko Differential fields and complex differential equations. **2001a:12012**
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Shankar, Shiva The Nullstellensatz for systems of PDE. (English summary) **2001k:35011**
Skórnik, Krystyna (*with* Wloka, Joseph) Some remarks concerning the m-reduction of differential equations. (English summary) **2001e:34011**
Viazminsky, C. An algebraic treatment of totally linear partial differential equations. (English summary) **2001i:35018**
Wloka, Joseph *see* **Skórnik, Krystyna, 2001e:34011**
Zharinov, V. V. Secondary operational calculus. (English summary) **2001f:12011**

12H25 p-adic differential equations [see also 11S80, 14G20]

Baldassarri, Francesco p-adic differential equations and p-adic interpolation of classical formulas. (Italian. English summary) **2001m:12013**
Chiarellotto, Bruno Espaces de Berkovich et équations différentielles p-adiques. Une note. [A note on Berkovich spaces and p-adic differential equations] **2001f:12013**
Christol, Gilles (*with* Mebkhout, Zoghman) p-adic differential equations. (English summary) **2001b:12014**
— (*with* Mebkhout, Zoghman) Sur le théorème de l'indice des équations différentielles p-adiques. III. [On the index theorem for p-adic differential equations. III] **2001k:12014**
— *see also* **Remmal, S., 2001c:12012**
Gachet, F. Structure fuchsienne pour des modules différentiels sur une polycouronne ultramétrique. [Fuchsian structure for differential modules on an ultrametric polyannulus] **2001b:12015**
Mebkhout, Zoghman *see* **Christol, Gilles, 2001b:12014** *and* **2001k:12014**
Pons, Emilie Modules différentiels non solubles. Rayons de convergence et indices. [Nonsolvable differential modules. Radii of convergence and indices] **2001i:12009**
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Dwork, Bernard M. Cohomology of singular hypersurfaces. **2001k:11115**

12H99 None of the above, but in this section

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Malgrange, Bernard La variété caractéristique d'un système différentiel analytique. (English and French summaries) [The characteristic variety of an analytic differential system] **2001m:32020**

12Jxx Topological fields

12J05 Normed fields

Items with secondary classifications in 12J05

Northshield, Sam On iterates of Möbius transformations on fields. (English summary) **2001j:65083**

12J10 Valued fields

Deschamps, Bruno Le corps des séries de Puiseux généralisées. [The field of generalized Puiseux series] **2001k:12015**
Khanduja, Sudesh K. (*with* Saha, Jayanti) On invariants of elements over a Henselian field. (English summary) **2001d:12011**
— (*with* Saha, Jayanti) A generalized fundamental principle. (English summary) **2001e:12005**
Kuhlmann, Franz-Viktor (*with* Lombardi, Henri) Construction du hensélisé d'un corps valué. (French summary) [Construction of the Henselization of a valued field] **2001k:12016**
Lombardi, Henri Une généralisation du Positivstellensatz pour les corps valués algébriquement clos. (English and French summaries) [Generalized Positivstellensatz for algebraically closed valued fields] **2001f:12014**
— *see also* **Kuhlmann, Franz-Viktor, 2001k:12016**
Ohm, Jack On the vector space defect for valued field extensions. (English summary) **2001e:12006**
Saha, Jayanti *see* **Khanduja, Sudesh K., 2001d:12011** *and* **2001e:12005**
Sury, B. Absolute values and completions. **2001k:12017**

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Denef, Jan Arithmetic and geometric applications of quantifier elimination for valued fields. (English summary) **2001e:03063**
Efrat, Ido (*with* Fesenko, Ivan) Fields Galois-equivalent to a local field of positive characteristic. **2001i:12004**
Engler, Antonio José Witt-Grothendieck rings and π-Henselianity. (English and Portuguese summaries) **2001h:11050**
Fesenko, Ivan *see* **Efrat, Ido, 2001i:12004**
Khanduja, Sudesh K. A characterization of finite tame extensions. (English summary) **2001e:12007**
Morandi, Patrick J. (*with* Sethuraman, B. A.) Generalized cocycles with values in one-units of Henselian valued division algebras. (English summary) **2001e:16035**
de la Puente, M. J. A complex version of the Baer-Krull theorems. (English summary) **2001i:12010**
Sethuraman, B. A. *see* **Morandi, Patrick J., 2001c:16035**
Ulrich, Peter[2] ★ Uniforme Zerlegung α-algebraischer Mengen zu bewerteten Körpern. (German) [Uniform decomposition of α-algebraic sets for valued fields] **2001c:14089**
Vaquié, Michel Valuations. (French) **2001i:13005**

12J15 Ordered fields

Alonso, M. E. (*with* Vélez, M. P.) On real involutions and ramification of real valuations. (English summary) **2001b:12016**
Dobbs, David E. On characterizations of the ordered field of real numbers. (English summary)
de la Puente, M. J. A complex version of the Baer-Krull theorems. (English summary) **2001i:12010**
Vélez, M. P. *see* **Alonso, M. E., 2001b:12016**

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Aschenbrenner, Matthias (*with* van den Dries, Lou) Closed asymptotic couples. (English summary) **2001g:03065**
Chistov, A. L. A strong version of the basic deciding algorithm for a first-order existential theory of real-closed fields. (Russian. English and Russian summaries) **2001j:14080**
Deschamps, Bruno Clôtures totalement réelles des corps de nombres ordonnables. (English summary) [Totally real closures of ordered number fields] **2001d:12006**
van den Dries, Lou *see* **Aschenbrenner, Matthias, 2001g:03065**
Ehrlich, Philip Hahn's *Über die nichtarchimedischen Grössensysteme* and the development of the modern theory of magnitudes and numbers to measure them. **2001e:06001**
(Hahn, Hans) *see* **Ehrlich, Philip, 2001e:06001**
Kuhlmann, Franz-Viktor (*with* Kuhlmann, Salma) The exponential rank of nonarchimedean exponential fields. (English summary) **2001d:12012**
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Richter, Marcel K. (*with* Wong, Kam-Chau) Definable utility in o-minimal structures. (English summary) **2001g:91053**
Wong, Kam-Chau *see* **Richter, Marcel K., 2001g:91053**

12J20 General valuation theory [see also 13A18]

Khanduja, Sudesh K. A characterization of finite tame extensions. (English summary) **2001e:12007**

Items with secondary classifications in 12J20

Khanduja, Sudesh K. (*with* Saha, Jayanti) On invariants of elements over a Henselian field. (English summary) **2001d:12011**
Saha, Jayanti *see* **Khanduja, Sudesh K., 2001d:12011**

12J25 Non-Archimedean valued fields [see also 30G06, 32P05, 46S10, 47S10]

Boussaf, Kamal Strictly analytic p-adic functions. (English summary) **2001c:12013**
Efrat, Ido Construction of valuations from K-theory. (English summary) **2001i:12011**
Kuhlmann, Franz-Viktor (*with* Kuhlmann, Salma) The exponential rank of nonarchimedean exponential fields. (English summary) **2001d:12012**
Kuhlmann, Salma *see* **Kuhlmann, Franz-Viktor, 2001d:12012**
Madunts, A. I. *see* **Zhukov, I. B., 2001m:12014**
Ponomarëv, K. N. Some generalizations of Abhyankar's lemma. (Russian. English summary) **2001k:12018**
Zhukov, I. B. (*with* Madunts, A. I.) Additive and multiplicative decompositions in multidimensional local fields. (Russian. English and Russian summaries) **2001m:12014**

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Alexandru, Victor (*with* Popescu, Nicolae; Zaharescu, Alexandru) The generating degree of $\mathbf{C}_p$. (English summary) **2001m:11210**

Alonso, M. E. (*with* Vélez, M. P.) On real involutions and ramification of real valuations. (English summary) **2001b:12016**
Bhargava, Manjul (*with* Kedlaya, Kiran S.) Continuous functions on compact subsets of local fields. **2001d:11117**
Boussaf, Kamal Images of circular filters. (English summary) **2001g:46160**
Conrad, Keith A q-analogue of Mahler expansions. I. (English summary) **2001i:11140**
Corrales Rodrigáñez, Capi p-adic numbers and non-Archimedean valuations. **2001h:11151**
Deschamps, Bruno Le corps des séries de Puiseux généralisées. [The field of generalized Puiseux series] **2001k:12015**
Kedlaya, Kiran S. *see* **Bhargava, Manjul, 2001d:11117**
Khanduja, Sudesh K. A characterization of finite tame extensions. (English summary) **2001e:12007**
Popescu, Nicolae *see* **Alexandru, Victor et al., 2001m:11210**
Vélez, M. P. *see* **Alonso, M. E., 2001b:12016**
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12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]

Items with secondary classifications in 12J27

Boussaf, Kamal Shilov boundary of a Krasner Banach algebra $H(D)$. (English summary) **2001m:46165**
Christol, Gilles *see* **Remmal, S., 2001c:12012**
Remmal, S. (*with* Christol, Gilles) Irregular p-adic linear differential equations. **2001c:12012**

12J99 None of the above, but in this section

Nowak, Krzysztof Jan Some elementary proofs of Puiseux's theorems. (English summary) **2001m:12015**
Shackell, John Star products and the representation of asymptotic growth. (English summary)

12Kxx Generalizations of fields

12K05 Near-fields [see also 16Y30]

Hering, Christoph On the classification of finite nearfields. (English summary)

Items with secondary classifications in 12K05

Pilz, Günter F. The useful world of one-sided distributive systems. (English summary) **2001m:16080**

12K10 Semifields [see also 16Y60]

Cordero, M. (*with* Wene, G. P.) A survey of finite semifields. (English summary) **2001f:12015**
Prince, Alan R. Two new families of commutative semifields. (English summary) **2001b:12017**
Wene, G. P. *see* **Cordero, M., 2001f:12015**

Items with secondary classifications in 12K10

Bernhard, Pierre Max-plus algebra and mathematical fear in dynamic optimization. (English summary) **2001g:49045**
Wene, G. P. Finite semifields three-dimensional over the left nuclei. **2001g:17004**

12K99 None of the above, but in this section

Johnson, C. Powell Neofields satisfying $1 + 1 = 0$. (English summary)
Sun, Gui Qiu Xin number theory. II. (Chinese. English and Chinese summaries)
— Xin number theory. III. (Chinese. English and Chinese summaries)

Items with secondary classifications in 12K99

Schörner, Erwin Zur Konstruktion von Hahn-Ternärkörpern als Ternärkörper formaler Potenzreihen. (English and German summaries) [On the construction of Hahn ternary fields as ternary fields of formal power series] **2001j:51004**
— Hahn-Ternärkörper mit speziellen Faktorsystemen. (English and German summaries) [Hahn ternary fields with special factor systems] **2001j:51005**

12Lxx Connections with logic

12L05 Decidability [see also 03B25]

Shlapentokh, Alexandra Hilbert's tenth problem for algebraic function fields over infinite fields of constants of positive characteristic. (English summary) **2001e:12008**

Items with secondary classifications in 12L05

Chistov, A. L. A strong version of the basic deciding algorithm for a first-order existential theory of real-closed fields. (Russian. English and Russian summaries) **2001j:14080**
Darsaliya, V. Sh. On the algorithmic decidability of the property of expressibility for polynomials. (Russian. English and Russian summaries) **2001m:03020**

12L12 Model theory [see also 03C60]

Chatzidakis, Zoé A survey on the model theory of difference fields. (English summary) **2001e:12009**
van den Dries, Lou Classical model theory of fields. (English summary) **2001i:12012**
Marker, David Model theory of differential fields. (English summary) **2001j:12005**
Wagner, Frank O. Minimal fields and bad fields in non-zero characteristic. (English summary) (*see* **2001d:00025**)

Items with secondary classifications in 12L12

Ershov, Yurii Leonidovich On amazing extensions of the field of rational numbers. (Russian) **2001h:12008**
(Haskell, Deirdre) *see* **Model theory, algebra, and geometry, 2001d:03004**
Lejeune, Hélène Paires élémentaires de corps pseudo-finis: dénombrement des complétions. (English and French summaries) [Elementary pairs of pseudofinite fields: counting completions] **2001i:03075**
McGrail, Tracey The search for trivial types. (English summary) **2001g:03066**
Pierce, David Function fields and elementary equivalence. (English summary) **2001a:03080**
(Pillay, Anand) *see* **Model theory, algebra, and geometry, 2001d:03004**
de la Puente, M. J. A complex version of the Baer-Krull theorems. (English summary) **2001i:12010**
(Steinhorn, Charles) *see* **Model theory, algebra, and geometry, 2001d:03004**

Items listed otherwise than by author

Model theory, algebra, and geometry ★ Model theory, algebra, and geometry. **2001d:03004**

12L99 None of the above, but in this section

Items with secondary classifications in 12L99

Denef, Jan Arithmetic and geometric applications of quantifier elimination for valued fields. (English summary) **2001e:03063**
Krajíček, Jan Uniform families of polynomial equations over a finite field and structures admitting an Euler characteristic of definable sets. **2001k:03129**
Kuhlmann, Franz-Viktor (*with* Lombardi, Henri) Construction du hensélisé d'un corps valué. (French summary) [Construction of the Henselization of a valued field] **2001k:12016**
Lombardi, Henri *see* **Kuhlmann, Franz-Viktor, 2001k:12016**

12Y05 Computational aspects of field theory and polynomials

Abramov, Sergei A. (*with* Bronstein, Manuel) Hypergeometric dispersion and the orbit problem. (English summary)
Blömer, Johannes Denesting by bounded degree radicals. (English summary) **2001g:12004**
Bronstein, Manuel *see* **Abramov, Sergei A.**
Fu, Hongguang (*with* Yang, Lu; Zeng, Zhenbing) A recursive algorithm for constructing generalized Sturm sequence. (English summary) **2001b:12018**
Karpinski, Marek (*with* van der Poorten, Alfred J.; Shparlinski, Igor E.) Zero testing of p-adic and modular polynomials. (English summary) **2001m:12016**
Matusevich, Laura Felicia Rational summation of rational functions. (English summary) **2001i:12013**
van der Poorten, Alfred J. *see* **Karpinski, Marek et al., 2001m:12016**
Shparlinski, Igor E. *see* **Karpinski, Marek et al., 2001m:12016**
Yang, Lu *see* **Fu, Hongguang et al., 2001b:12018**
Zeng, Zhenbing *see* **Fu, Hongguang et al., 2001b:12018**

Items with secondary classifications in 12Y05

Berchenko, Irina (*with* Olver, Peter J.) Symmetries of polynomials. (English summary) **2001g:13007**
Bykov, V. I. (*with* Kytmanov, A. M.; Osetrova, T. A.; Potapova, Z. E.) Application of computer algebra systems in a modified method of the elimination of unknowns. (Russian) **2001e:13036**
El Din, Mohab Safey *see* **Lombardi, Henri et al., 2001m:13048**
Encarnación, Mark J. The average number of modular factors in Trager's polynomial factorization algorithm. (English summary) (*see* **2001i:68010**)
Fitzgerald, Robert W. Norms of sums of squares. (English summary) **2001k:11060**
Galligo, André (*with* Watt, Stephen M.) A numerical absolute primality test for bivariate polynomials. (English summary) (*see* **2001i:68010**)
— Real factorization of multivariate polynomials with integer coefficients. (English and Russian summaries) **2001f:12002**
Geissler, Katharina (*with* Klüners, Jürgen) Galois group computation for rational polynomials. (English summary) **2001k:12006**
Goldman, Ron *see* **Zhang, Ming[6]**
Grigor'ev, D. Yu. (*with* Lakshman, Y. N.) Algorithms for computing sparse shifts for multivariate polynomials. (English summary) **2001m:13049**
von Haeseler, F. (*with* Peitgen, Heinz-Otto; Skordev, G.) On the fractal structure of the rescaled evolution set of Carlitz sequences of polynomials. (English summary) **2001g:11029**
Hubert, Evelyne Factorization-free decomposition algorithms in differential algebra. (English summary) **2001k:12013**
Klüners, Jürgen *see* **Geissler, Katharina, 2001k:12006**
Kuhlmann, Franz-Viktor (*with* Lombardi, Henri) Construction du hensélisé d'un corps valué. (French summary) [Construction of the Henselization of a valued field] **2001k:12016**
Kytmanov, A. M. *see* **Bykov, V. I. et al., 2001e:13036**
Lakshman, Y. N. *see* **Grigor'ev, D. Yu., 2001m:13049**
Lewin, Daniel (*with* Vadhan, Salil) Checking polynomial identities over any field: towards a derandomization? (*see* **2001d:68026**)
Lombardi, Henri (*with* Roy, Marie-Françoise; El Din, Mohab Safey) New structure theorem for subresultants. (English summary) **2001m:13048**
— *see also* **Kuhlmann, Franz-Viktor, 2001k:12016**
Morrison, Sally The differential ideal $[P]:M^\infty$. (English summary) **2001c:12008**

Müller-Quade, Jörn (*with* Steinwandt, Rainer) Gröbner bases applied to finitely generated field extensions. (English summary) **2001i:13040**
Olver, Peter J. *see* **Berchenko, Irina**, **2001g:13007**
Osetrova, T. A. *see* **Bykov, V. I. et al.**, **2001e:13036**
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Potapova, Z. E. *see* **Bykov, V. I. et al.**, **2001e:13036**
Reischert, Daniel Asymptotically fast computation of subresultants. (English summary) (*see* **2001i:68010**)
Richman, Fred The fundamental theorem of algebra: a constructive development without choice. (English summary) **2001k:03141**
Roy, Marie-Françoise *see* **Lombardi, Henri et al.**, **2001m:13048**
Sadik, Brahim A bound for the order of characteristic set elements of an ordinary prime differential ideal and some applications. (English summary) **2001f:12009**
Skordev, G. *see* **von Haeseler, F. et al.**, **2001g:11029**
Steinwandt, Rainer *see* **Müller-Quade, Jörn**, **2001i:13040**
Vadhan, Salil *see* **Lewin, Daniel**, (**2001d:68026**)
Valibouze, Annick Étude des relations algébriques entre les racines d'un polynôme d'une variable. (English and French summaries) [Study of the algebraic relations among the roots of a univariate polynomial] **2001b:12005**
Watt, Stephen M. *see* **Galligo, André**, (**2001i:68010**)
Zhang, Ming[6] (*with* Goldman, Ron) Rectangular corner cutting and Sylvester *A*-resultants. (English summary)

13–XX Commutative rings and algebras

13–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Chin, CheeWhye) *see* **Serre, Jean-Pierre, 2001b:13001**
Serre, Jean-Pierre ★ Local algebra. (English summary) **2001b:13001**
Sharp, Rodney Y. ★ Steps in commutative algebra. (English summary) **2001i:13001**

Items with secondary classifications in 13–01

Berrick, A. J. (*with* Keating, M. E.) ★ An introduction to rings and modules with K-theory in view. (English summary) **2001f:16001**
Cohn, P. M. ★ Introduction to ring theory. (English summary) **2001a:16001**
Hibbard, Allen C. (*with* Levasseur, Kenneth M.) ★ Exploring abstract algebra with Mathematica®. (English summary) **2001g:00001**
Janusz, Gerald J. *see* **McCoy, Neal H., 2001j:00003**
de Jong, Theo (*with* Pfister, Gerhard) ★ Local analytic geometry. (English summary) **2001c:32001**
Keating, M. E. *see* **Berrick, A. J., 2001f:16001**
Kreuzer, Martin (*with* Robbiano, Lorenzo) ★ Computational commutative algebra. 1. (English summary) **2001j:13027**
Levasseur, Kenneth M. *see* **Hibbard, Allen C., 2001g:00001**
McCoy, Neal H. (*with* Janusz, Gerald J.) ★ Introduction to abstract algebra. (English summary) **2001j:00003**
Pfister, Gerhard *see* **de Jong, Theo, 2001c:32001**
Robbiano, Lorenzo *see* **Kreuzer, Martin, 2001j:13027**
Scherk, John ★ Algebra. (English summary) **2001i:00002**

13–02 Research exposition (monographs, survey articles)

Fuchs, László[1] (*with* Salce, Luigi) ★ Modules over non-Noetherian domains. **2001i:13002**
Huneke, Craig Hyman Bass and ubiquity: Gorenstein rings. (English summary) **2001m:13001**
Salce, Luigi *see* **Fuchs, László[1], 2001i:13002**

Items with secondary classifications in 13–02

Halter-Koch, Franz ★ Ideal systems. (English summary) **2001m:13005**

13–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 13–03

Catanese, Fabrizio Hilbert and the theory of invariants. (Italian) **2001m:01028**
(Hilbert, David[1]) *see* **Catanese, Fabrizio, 2001m:01028**

13–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 13–04

Hibbard, Allen C. (*with* Levasseur, Kenneth M.) ★ Exploring abstract algebra with Mathematica®. (English summary) **2001g:00001**
Levasseur, Kenneth M. *see* **Hibbard, Allen C., 2001g:00001**

13–06 Proceedings, conferences, collections, etc.

(Anderson, Daniel D.) *see* **Ideal theoretic methods in commutative algebra, 2001m:13002**
(Dobbs, David E.) *see* **Advances in commutative ring theory, 2001b:13002**
(Fontana, Marco) *see* **Advances in commutative ring theory, 2001b:13002**
(Herzog, Jürgen) *see* **Geometric and combinatorial aspects of commutative algebra, 2001j:13001**
(Huckaba, James A.) *see* **Ideal theoretic methods in commutative algebra, 2001m:13002**
(Kabbaj, Salah-Eddine) *see* **Advances in commutative ring theory, 2001b:13002**
(Papick, Ira J.) *see* **Ideal theoretic methods in commutative algebra, 2001m:13002**
(Restuccia, Gaetana) *see* **Geometric and combinatorial aspects of commutative algebra, 2001j:13001**

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Advances in commutative ring theory ★ Advances in commutative ring theory. **2001b:13002**
Columbia, MO ★ Ideal theoretic methods in commutative algebra. **2001m:13002**
Conference:
  Commutative Algebra and Algebraic Geometry ★ Geometric and combinatorial aspects of commutative algebra. **2001j:13001**
  Commutative Ring Theory ★ Advances in commutative ring theory. **2001b:13002**
Festschrift:
  Huckaba, James A. ★ Ideal theoretic methods in commutative algebra. **2001m:13002**
Fez ★ Advances in commutative ring theory. **2001b:13002**
Geometric and combinatorial aspects of commutative algebra ★ Geometric and combinatorial aspects of commutative algebra. **2001j:13001**
Ideal theoretic methods in commutative algebra ★ Ideal theoretic methods in commutative algebra. **2001m:13002**
Messina ★ Geometric and combinatorial aspects of commutative algebra. **2001j:13001**

Items with secondary classifications in 13–06

(Boffi, G.) *see* **Commutative algebra, homological algebra and representation theory, 2001d:00030**
(Bosma, Wieb) *see* **Computational algebra and number theory, 2001h:00021**
(Melles, Caroline Grant) *see* **Singularities in algebraic and analytic geometry, 2001f:14005**
(Michler, Ruth I.) *see* **Singularities in algebraic and analytic geometry, 2001f:14005**
(Ragusa, Alfio) *see* **Commutative algebra, homological algebra and representation theory, 2001d:00030**
(Strickland, Elisabetta) *see* **Commutative algebra, homological algebra and representation theory, 2001d:00030**
(Valla, Giuseppe) *see* **Commutative algebra, homological algebra and representation theory, 2001d:00030**

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Catania ★ Commutative algebra, homological algebra and representation theory. **2001d:00030**
Commutative algebra, homological algebra and representation theory ★ Commutative algebra, homological algebra and representation theory. **2001d:00030**
Computational algebra and number theory ★ Computational algebra and number theory. **2001h:00021**
Conference:
  Commutative Algebra, Homological Algebra and Representation Theory ★ Commutative algebra, homological algebra and representation theory. **2001d:00030**
  Magma ★ Computational algebra and number theory. **2001h:00021**
Contemporary Mathematics ★ Singularities in algebraic and analytic geometry. **2001f:14005**
Genoa ★ Commutative algebra, homological algebra and representation theory. **2001d:00030**
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13Axx General commutative ring theory

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13A02 Graded rings [see also 16W50]

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Picavet, Gabriel About GCD domains. **2001e:13031**
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13A30 Associated graded rings of ideals (Rees ring, form ring), analytic spread and related topics

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Duong Quôc Viêt On local reduction numbers and a-invariants of Rees algebras of good filtrations. **2001f:13005**
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Goto, Shiro (*with* Iai, Shin-Ichiro) Embeddings of certain graded rings into their canonical modules. **2001f:13006**
— Cohen-Macaulayness and negativity of A-invariants in Rees algebras associated to m-primary ideals of minimal multiplicity. (English summary) **2001e:13004**
Herrmann, Manfred (*with* Hyry, Eero; Korb, Thomas) On a-invariant formulas. (English summary) **2001j:13005**
Huckaba, Sam (*with* Marley, Thomas) On associated graded rings of normal ideals. **2001h:13004**
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— (*with* Korb, Thomas) Reduction exponents and the Gorenstein property of blow-up algebras. **2001k:13002**
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Li, Huishi (*with* Wu, Yihong) Filtered-graded transfer of Groebner basis computation in solvable polynomial algebras. (English summary) **2001c:13040**
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13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p; tight closure [see also 13B22]

Enescu, Florian On the behavior of F-rational rings under flat base change. (English summary) **2001j:13007**
Hara, Nobuo Geometric interpretation of tight closure and test ideals. (English summary) **2001m:13009**
Huneke, Craig The saturation of Frobenius powers of ideals. (English summary) **2001k:13005**
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13A50 Actions of groups on commutative rings; invariant theory [see also 14L24]

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Chu, Huah (*with* Kang, Ming-Chang) Rationality of p-group actions. (English summary) **2001k:13008**
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— Rings of polynomial invariants of the alternating group have no finite SAGBI bases with respect to any admissible order. (English summary) **2001d:13003**
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Daigle, Daniel (*with* Freudenburg, Gene) A note on triangular derivations of $k[X_1, X_2, X_3, X_4]$. (English summary) **2001f:13043**
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Guier, Jorge I. Produits booléens d'anneaux de valuation réels clos. (English and French summaries) [Boolean products of real closed valuation rings] **2001d:03084**
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Vicknair, J. Paul *see* **Ameziane Hassani, Souâd et al., 2001e:16044**

13Bxx Ring extensions and related topics

13B02 Extension theory

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— *see also* **Kanemitsu, Mitsuo et al., 2001j:13009**
Ben Nasr, Mabrouk (*with* Jarboui, Noôman) Maximal non-Jaffard subrings of a field. (English summary) **2001d:13004**
Brewer, James (*with* Richman, Fred) Weakly integrally closed domains: minimum polynomials of matrices. (English summary) **2001f:13011**
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Li, Aihua Prime elements of birational extensions of a Noetherian UFD. (English summary) **2001i:13007**
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Neusel, Mara D. Integral extensions of unstable algebras over the Steenrod algebra. (English summary) **2001a:13009**
Oda, Susumu (*with* Yoshida, Ken-ichi[1]) On equivalence of flatness and quasi-finiteness on successively anti-integral extensions. (English summary) **2001a:13010**
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Oukessou, M. (*with* Miri, A.) Sur les suranneaux minimaux. [On minimal overrings] **2001c:13009**
Picavet-L'Hermitte, Martine Weak normality and t-closedness. **2001e:13010**
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Chang, Gyu Whan (*with* Kang, Byung Gyun) On Krull overrings of a Marot ring whose regular ideals are finitely generated. (English summary) **2001d:13018**
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13B05 Galois theory

Mazur, Marcin Remarks on normal bases. (English summary) **2001j:13011**

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Coykendall, Jim (*with* Teymuroglu, Ayse A.) Divisor properties inherited by normsets of rings of integers. **2001m:11191**
Teymuroglu, Ayse A. *see* **Coykendall, Jim, 2001m:11191**
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13B10 Morphisms

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van den Essen, Arno *see* **Drensky, Vesselin S. et al., 2001e:13011**
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Restuccia, Gaetana *see* **Ionescu, Cristodor, 2001k:13011**
Saleh, Mohammad A. (*with* Yousef, Hasan) The number of ring homomorphisms from $Z_m[\beta] \times \cdots \times Z_m[\beta]$ into $Z_k[\beta] \times \cdots \times Z_k[\beta]$, $\beta = i$ or $\beta = \rho$, where $i^2 + 1 = 0$, $\rho^2 + \rho + 1 = 0$. (English summary) **2001a:13011**
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Shpilrain, Vladimir (*with* Yu, Jie-Tai) Peak reduction technique in commutative algebra: a survey. (English summary) **2001m:14087**
Yi, Okyeon On injective modules and locally nilpotent endomorphisms of injective modules. (English summary) **2001d:13008**
Yu, Jie-Tai *see* **Drensky, Vesselin S., 2001f:13028** *and* **Shpilrain, Vladimir, 2001m:14087**

13B21 Integral dependence

Zöschinger, Helmut Kriterien für Ganzheit. [Criteria for integrality] **2001k:13012**

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Coquand, Thierry (*with* Persson, Henrik) Valuations and Dedekind's Prague theorem. (English summary) **2001m:13032**
Oda, Susumu *see* **Baba, Kiyoshi et al., 2001k:13013**
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Picavet-L'Hermitte, Martine Weak normality and t-closedness. **2001e:13010**
Roberts, Leslie G. Integral dependence and weak subintegrality. (English summary) **2001j:13010**
Yoshida, Ken-ichi[1] *see* **Baba, Kiyoshi et al., 2001k:13013**

13B22 Integral closure of rings and ideals [see also 13A35]; integrally closed rings, related rings (Japanese, etc.)

Anderson, David F. Root closure in commutative rings: a survey. **2001d:13005**
— (*with* Park, Jeanam) Rooty and root closed domains. **2001g:13013**
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Brennan, Joseph P. (*with* Vasconcelos, Wolmer V.) On the structure of closed ideals. **2001k:13014**
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Gianni, Patrizia M. (*with* Trager, Barry M.) Integral closure of Noetherian rings. (English summary) (*see* **2001i:68010**)

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Matsuda, Ryûki Note on integral closures of semigroup rings. (English summary) **2001k:13015**
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Sharp, Rodney Y. *see* **Kingsbury, Alan K., 2001c:13011**
Tıraş, Yücel On integral closure and asymptotic behaviour. **2001i:13008**
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Bazzoni, Silvana Divisorial domains. (English summary) **2001i:13031**
Cahen, Paul-Jean (*with* Chabert, Jean-Luc; Dobbs, David E.; Tartarone, Francesca) On locally divided domains of the form Int(D). (English summary) **2001b:13026**
Chabert, Jean-Luc *see* **Cahen, Paul-Jean et al., 2001b:13026**
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Decker, Wolfram (*with* de Jong, Theo; Greuel, Gert-Martin; Pfister, Gerhard) The normalization: a new algorithm, implementation and comparisons. **2001a:13047**
Del Corso, Ilaria Kronecker's method of indeterminate coefficients. (English summary) **2001g:13040**
Dobbs, David E. Integral domains with almost integral proper overrings. (English summary) **2001m:13038**
— *see also* **Cahen, Paul-Jean et al., 2001b:13026**
Fröberg, Ralf *see* **Barucci, V. et al., 2001g:13053**
Gately, John F. Unique factorization of $*$-products of one-fibered monomial ideals. (English summary) **2001g:13046**
Greuel, Gert-Martin *see* **Decker, Wolfram et al., 2001a:13047**
Huneke, Craig A cancellation theorem for ideals. (English summary) **2001h:13030**
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Laubenbacher, Reinhard C. (*with* Swanson, Irena) Permanental ideals. (English summary) **2001i:13039**
Noh, Sunsook Valuation ideals of order one in 2-dimensional regular local rings. (English summary) **2001b:13028**
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Picavet-L'Hermitte, Martine Weak normality and t-closedness. **2001e:13010**
Reid, Les (*with* Roberts, Leslie G.) Monomial subrings and systems of subintegrality. (English summary) **2001d:13024**
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13B24 Going up; going down; going between

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Sato, Junro *see* **Oda, Susumu, 2001c:13012**

Items with secondary classifications in 13B24

Belluce, L. P. The going up and going down theorems in MV-algebras and abelian l-groups. **2001d:06017**
Dobbs, David E. (*with* Fontana, Marco) Lifting trees of prime ideals to Bezout extension domains. (English summary) **2001c:13002**
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Miri, A. *see* **Oukessou, M., 2001c:13009**
Neusel, Mara D. Integral extensions of unstable algebras over the Steenrod algebra. (English summary) **2001a:13009**
Okabe, Akira On quasi-valuation domains. **2001i:13033**
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13B25 Polynomials over commutative rings [see also 11C08, 13F20, 13M10]

Chen, Ji Long (*with* Mu, Zhuang Zhi) An exploration on uniqueness for the greatest common factor to be a multiple sum of polynomials. (Chinese. English and Chinese summaries)
Drensky, Vesselin S. (*with* Shpilrain, Vladimir; Yu, Jie-Tai) On the density of the set of generators of a polynomial algebra. (English summary) **2001b:13013**
Frisch, Sophie Polynomial functions on finite commutative rings. (English summary) **2001d:13006**
Kuz'min, A. S. Polynomials of maximal period over primary residue rings. (Russian. English and Russian summaries)
Mu, Zhuang Zhi *see* **Chen, Ji Long**
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Shpilrain, Vladimir (*with* Yu, Jie-Tai) Embeddings of curves in the plane. (English summary) **2001f:13012**
— (*with* Yu, Jie-Tai) Peak reduction technique in commutative algebra. (English summary) **2001h:13010**
— *see also* **Drensky, Vesselin S. et al., 2001b:13013**
Vasilenko, O. N. On discrete logarithmization in some groups. (Russian. Russian summary)
Yang, Jing Hua Flatness and (R, k)-polynomials. (Chinese. English and Chinese summaries) **2001c:13013**
Yu, Jie-Tai *see* **Drensky, Vesselin S. et al., 2001b:13013; Shpilrain, Vladimir, 2001f:13012** *and* **2001h:13010**

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Dobbs, David E. (*with* Johnson, Laura E.) On the probability that Eisenstein's criterion applies to an arbitrary irreducible polynomial. **2001i:11103**
Halter-Koch, Franz (*with* Narkiewicz, Władysław) Scarcity of finite polynomial orbits. (English summary) **2001h:11028**
Johnson, Laura E. *see* **Dobbs, David E., 2001i:11103**
Maxson, C. J. (*with* van der Merwe, A. B.) On full ideals in $P(Z_{p^n})$ $(n > p)$. (English summary) **2001m:13033**
van der Merwe, A. B. *see* **Maxson, C. J., 2001m:13033**
Narkiewicz, Władysław *see* **Halter-Koch, Franz, 2001h:11028**

13B30 Quotients and localization

Dai, Zhi Zhong On real total quotient rings and related topics. (English summary) **2001a:13013**
Khashyarmanesh, K. (*with* Salarian, Sh.; Zakeri, H.) Generalized fractions, determinantal maps and local cohomology modules. (English summary) **2001f:13013**
Salarian, Sh. *see* **Khashyarmanesh, K. et al., 2001f:13013**
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Cahen, Paul-Jean (*with* Gabelli, Stefania; Houston, Evan) Mori domains of integer-valued polynomials. (English summary) **2001g:13044**
Fontana, Marco Kaplansky ideal transform: a survey. **2001d:13001**
Gabelli, Stefania *see* **Cahen, Paul-Jean et al., 2001g:13044**
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Laksov, Dan (*with* Pitteloud, Y.; Skjelnes, Roy Mikael) Notes on flatness and the Quot functor on rings. (English summary) **2001i:13009**
May, Warren Lee[2] (*with* Zanardo, P.) Modules over domains large in a complete discrete valuation ring. (English summary) **2001j:13013**
Nison, L. Algèbres rationnelles et variétés algébriques sur un corps commutatif quelconque. [Rational algebras and algebraic varieties over an arbitrary commutative field] **2001a:14002**
Pitteloud, Y. *see* **Laksov, Dan et al., 2001i:13009**
Sidky, F. I. Fuzzy localization of modules. (English summary) **2001h:13017**
Skjelnes, Roy Mikael *see* **Laksov, Dan et al., 2001i:13009**
Syu, U A remark on localization of injective modules. **2001d:13007**
Yengui, Ihsen Two counterexamples about the Nagata and Serre conjecture rings. (English summary) **2001g:13022**
Zanardo, P. *see* **May, Warren Lee[2], 2001j:13013**

13B35 Completion [see also 13J10]

Heinzer, William (*with* Rotthaus, Christel; Wiegand, Sylvia M.) Building Noetherian domains inside an ideal-adic completion. II. (English summary) **2001h:13011**
Loepp, S. Formal fibers at height one prime ideals. (English summary) **2001f:13014**
Rotthaus, Christel *see* **Heinzer, William et al., 2001h:13011**
Wiegand, Sylvia M. *see* **Heinzer, William et al., 2001h:13011**

13B40 Étale and flat extensions; Henselization; Artin approximation [see also 13J15, 14B12, 14B25]

DeMeyer, Frank (*with* McKenzie, Thomas; Schneider, Kim) Strongly etale extensions and weak Henselizations. **2001g:13014**
McKenzie, Thomas *see* **DeMeyer, Frank et al., 2001g:13014**
Popescu, Dorin Artin approximation. **2001g:13015**
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Schoutens, Hans Artin approximation via the model theory of Cohen-Macaulay rings. (English summary) **2001f:13015**

Items with secondary classifications in 13B40

Baba, Kiyoshi (*with* Yoshida, Ken-ichi[1]) Regularity of anti-integral extensions. (English summary) **2001c:13008**
Griffith, Phillip Induced formal deformations and the Cohen-Macaulay property. **2001b:13020**
Laksov, Dan (*with* Pitteloud, Y.; Skjelnes, Roy Mikael) Notes on flatness and the Quot functor on rings. (English summary) **2001i:13009**
Pitteloud, Y. *see* **Laksov, Dan et al., 2001i:13009**
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Traves, William N. Tight closure and differential simplicity. (English summary) **2001f:13045**
Yoshida, Ken-ichi[1] *see* **Baba, Kiyoshi, 2001c:13008**

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Bhatwadekar, S. M. (*with* Dutta, Amartya Kumar) On A^*-fibrations. (English summary) **2001h:14079**
Dutta, Amartya Kumar *see* **Bhatwadekar, S. M., 2001h:14079**
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13Cxx Theory of modules and ideals

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Berrick, A. J. (*with* Keating, M. E.) ★ An introduction to rings and modules with K-theory in view. (English summary) **2001f:16001**
Fuchs, László[1] (*with* Salce, Luigi) ★ Modules over non-Noetherian domains. **2001i:13002**
Keating, M. E. *see* **Berrick, A. J., 2001f:16001**
Salce, Luigi *see* **Fuchs, László[1], 2001i:13002**

13C05 Structure, classification theorems

Ecker, Andreas The number of submodules. (English summary) **2001g:13016**
Hoşten, Serkan (*with* Shapiro, Jay) Primary decomposition of lattice basis ideals. (English summary) **2001h:13012**
Morariu, Wanda On modules with primary and irreducible decomposition. **2001e:13012**
Shapiro, Jay *see* **Hoşten, Serkan, 2001h:13012**
Wiegand, Roger Failure of Krull-Schmidt for direct sums of copies of a module. **2001g:13017**

Items with secondary classifications in 13C05

McCasland, R. L. (*with* Moore, M. E.; Smith, Patrick F.) Zariski-finite modules. (English summary) **2001i:13010**
Moore, M. E. *see* **McCasland, R. L. et al., 2001i:13010**
Nobile, Augusto (*with* Villamayor U., Orlando E.) Arithmetic families of smooth surfaces and equisingularity of embedded schemes. (English summary) **2001b:14006**
Smith, Patrick F. *see* **McCasland, R. L. et al., 2001i:13010**
Villamayor U., Orlando E. *see* **Nobile, Augusto, 2001b:14006**

13C10 Projective and free modules and ideals [see also 19A13]

Almeida, Marcela (*with* D'Alfonso, Lisi; Solernó, Pablo) On the degrees of bases of free modules over a polynomial ring. (English summary) **2001a:13014**
Bhatwadekar, S. M. (*with* Sridharan, Raja) The Euler class group of a Noetherian ring. (English summary) **2001g:13018**
D'Alfonso, Lisi *see* **Almeida, Marcela et al., 2001a:13014**
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Laubenbacher, Reinhard C. (*with* Woodburn, Cynthia J.) A new algorithm for the Quillen-Suslin theorem. (English summary) **2001e:13013**
— (*with* Schlauch, Karen) An algorithm for the Quillen-Suslin theorem for quotients of polynomial rings by monomial ideals. (English summary) **2001k:13018**
Schlauch, Karen *see* **Laubenbacher, Reinhard C., 2001k:13018**
Solernó, Pablo *see* **Almeida, Marcela et al., 2001a:13014**
Sridharan, Raja *see* **Bhatwadekar, S. M., 2001g:13018**
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Dutta, Amartya Kumar On separable A^1-forms. (English summary) **2001j:13021**
Geramita, Anthony V. (*with* Harima, Tadahito; Shin, Yong Su) Extremal point sets and Gorenstein ideals. **2001d:13015**
Harima, Tadahito *see* **Geramita, Anthony V. et al., 2001d:13015**
Shin, Yong Su *see* **Geramita, Anthony V. et al., 2001d:13015**
Sivatskiĭ, A. S. On unimodular rows over polynomial rings. (English summary) **2001k:19001**
Smith, Patrick F. Commutative domains whose finitely generated projective modules have an injectivity property. **2001i:16003**

13C11 Injective and flat modules and ideals

Laksov, Dan (*with* Pitteloud, Y.; Skjelnes, Roy Mikael) Notes on flatness and the Quot functor on rings. (English summary) **2001i:13009**
Pitteloud, Y. *see* **Laksov, Dan et al., 2001i:13009**
Skjelnes, Roy Mikael *see* **Laksov, Dan et al., 2001i:13009**
Syu, U A remark on localization of injective modules. **2001d:13007**
Yi, Okyeon On injective modules and locally nilpotent endomorphisms of injective modules. (English summary) **2001d:13008**

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Divaani-Aazar, K. (*with* Tousi, Massoud) Asymptotic attached primes related to flat modules. (English summary) **2001m:13027**
Enochs, Edgar E. (*with* Jenda, Overtoun M. G.) On D-Gorenstein modules. (English summary) **2001f:13017**
Fontana, Marco Kaplansky ideal transform: a survey. **2001d:13001**
Jenda, Overtoun M. G. *see* **Enochs, Edgar E., 2001f:13017**
Oda, Susumu (*with* Yoshida, Ken-ichi[1]) On equivalence of flatness and quasi-finiteness on successively anti-integral extensions. (English summary) **2001a:13010**
Smith, Patrick F. Commutative domains whose finitely generated projective modules have an injectivity property. **2001i:16003**
Tousi, Massoud *see* **Divaani-Aazar, K., 2001m:13027**
Yassemi, Siamak Homomorphisms locally of finite injective dimension. (English summary) **2001e:13020**
Yoshida, Ken-ichi[1] *see* **Oda, Susumu, 2001a:13010**

13C12 Torsion modules and ideals

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Payrovi, Sh. Mayer-Vietoris sequence and torsion theory. (English summary) **2001f:13024**
Zöschinger, Helmut Kriterien für Ganzheit. [Criteria for integrality] **2001k:13012**

13C13 Other special types

Al-Shalgy, Layla S. M. *see* **Naoum, Adil G., 2001c:13016**
Al-Shaniafi, Yousef *see* **Singh, Surjeet, 2001c:13017**
Amasaki, Mutsumi Basic sequences of torsion free graded modules. **2001c:13014**
Anderson, Daniel D. Some remarks on multiplication ideals. II. (English summary) **2001f:13016**
Blazhenov, A. V. Genera construction of finite rank torsion-free moduli over Dedekind rings. (English summary) [Genera construction of finite rank torsion-free modules over Dedekind rings]
Cho, Yong Hwan On distinguished prime submodules. (English summary)
Chung, Sang-Cho (*with* Ko, Hyoung June) On Jacobson modules. (English summary)
Enochs, Edgar E. (*with* Jenda, Overtoun M. G.; Xu, Jinzhong) A generalization of Auslander's last theorem. (English summary) **2001a:13015**
— (*with* Jenda, Overtoun M. G.) On D-Gorenstein modules. (English summary) **2001f:13017**
Goeters, H. Pat Butler modules over 1-dimensional Noetherian domains. (English summary) **2001c:13015**
Harmancı, Abdullah *see* **Tıraş, Yücel et al., 2001c:13018**
Jenda, Overtoun M. G. *see* **Enochs, Edgar E. et al., 2001a:13015** *and* **2001f:13017**
Ko, Hyoung June *see* **Chung, Sang-Cho**
Kobayashi, Shigeru (*with* Marubayashi, Hidetoshi; Yoshikawa, Ryugo) On rings whose faithful modules, which is generated at most two elements, are generator. (English summary)
Marcelo Vega, Agustín (*with* Rodríguez Mielgo, César) Radical of submodules and symmetric algebra. (English summary) **2001g:13019**
Marubayashi, Hidetoshi *see* **Kobayashi, Shigeru et al.**
May, Warren Lee[2] (*with* Zanardo, P.) Modules over domains large in a complete discrete valuation ring. (English summary) **2001j:13013**
McCasland, R. L. (*with* Moore, M. E.; Smith, Patrick F.) Generators for the semimodule of varieties of a free module. **2001a:13016**
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Naoum, Adil G. (*with* Al-Shalgy, Layla S. M.) Quasi-Frobenius modules. (English summary) **2001c:13016**
Ngô Việt Trung *see* **Nhi, Dam Van, 2001h:13013**
Nhi, Dam Van (*with* Ngô Việt Trung) Specialization of modules over a local ring. (English summary) **2001h:13013**
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Singh, Surjeet (*with* Al-Shaniafi, Yousef) Quasi-injective multiplication modules. **2001c:13017**
Smith, Patrick F. *see* **McCasland, R. L. et al., 2001a:13016; 2001i:13010** *and* **Tıraş, Yücel et al., 2001c:13018**
Tıraş, Yücel (*with* Harmancı, Abdullah; Smith, Patrick F.) Some remarks on dense submodules of multiplication modules. **2001c:13018**
Wallutis, Simone L. On $\aleph_1$-free modules with trivial dual. **2001h:13014**
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Zanardo, P. *see* **May, Warren Lee[2], 2001j:13013**

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Chiarli, Nadia Subadjoint ideals to projective varieties. (English summary) **2001g:14005**
Divaani-Aazar, K. (*with* Tousi, Massoud) Asymptotic attached primes related to flat modules. (English summary) **2001m:13027**
Fomin, A. A. Some mixed abelian groups as modules over the ring of pseudo-rational numbers. (English summary) **2001b:20096**
Hennecke, Georg (*with* Strüngmann, Lutz) Transitivity and full transitivity for p-local modules. (English summary) **2001e:13029**
Herzog, Ivo (*with* Puninskaya, V. A.) Model theory for modules over a domain. (Russian. English and Russian summaries)
Mašek, Vladimír Gorenstein dimension and torsion of modules over commutative Noetherian rings. **2001k:13025**
Puninskaya, V. A. *see* **Herzog, Ivo**
Strüngmann, Lutz *see* **Hennecke, Georg, 2001e:13029**
Tousi, Massoud *see* **Divaani-Aazar, K., 2001m:13027**
Zeng, Guang Xing On formally real modules. (English summary) **2001a:13040**

13C14 Cohen-Macaulay modules [see also 13H10]

Isogawa, Satoru *see* **Yoshino, Yuji, 2001f:13018**
Kato, Kiriko Cohen-Macaulay approximations from the viewpoint of triangulated categories. (*see* **2001i:16001**)
Martsinkovsky, Alex Cohen-Macaulay modules and approximations. **2001i:13011**
O'Carroll, Liam (*with* Popescu, Dorin) On a theorem of Knörrer concerning Cohen-Macaulay modules. (English summary) **2001g:13020**
Popescu, Dorin *see* **O'Carroll, Liam, 2001g:13020**
Yoshino, Yuji (*with* Isogawa, Satoru) Linkage of Cohen-Macaulay modules over a Gorenstein ring. (English summary) **2001f:13018**

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Cortadellas, Teresa On the depth of the canonical modules of graded rings associated to an ideal. **2001d:13009**
Drozd, Yu. A. Cohen-Macaulay modules and vector bundles. **2001f:16031**
Leuschke, Graham (*with* Wiegand, Roger) Ascent of finite Cohen-Macaulay type. (English summary) **2001k:13035**
O'Carroll, Liam (*with* Popescu, Dorin) Free resolutions for deformations of maximal Cohen-Macaulay modules. (English summary) **2001i:13015**
Park, Chan-Bong (*with* Seo, Jae-Hoon) The normalized Hilbert coefficients in C-M modules. **2001a:13033**
Popescu, Dorin *see* **O'Carroll, Liam, 2001i:13015**
Seo, Jae-Hoon *see* **Park, Chan-Bong, 2001a:13033**
Tsuji, Miki Special reflexive modules and the first Chern class. (English summary) **2001f:32050**
Wiegand, Roger *see* **Leuschke, Graham, 2001k:13035**

13C15 Dimension theory, depth, related rings (catenary, etc.)

Bouchiba, Samir (*with* Girolami, Florida; Kabbaj, Salah-Eddine) The dimension of tensor products of commutative algebras over a zero-dimensional ring. **2001e:13014**
Cortadellas, Teresa On the depth of the canonical modules of graded rings associated to an ideal. **2001d:13009**
Girolami, Florida *see* **Bouchiba, Samir et al., 2001e:13014**
Kabbaj, Salah-Eddine *see* **Bouchiba, Samir et al., 2001e:13014**
Namazi, S. (*with* Sharif, H.) Catenary modules. II. (English summary) **2001g:13021**
Sharif, H. *see* **Namazi, S., 2001g:13021**
Yengui, Ihsen Two counterexamples about the Nagata and Serre conjecture rings. (English summary) **2001g:13022**

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Brumatti, Paulo Roberto (*with* Rocco, Noraí Romeu) On the subalgebra of polynomials generated by all binomials $x^n + y^n$, n a prime number. (English summary) **2001d:13020**
Cho, Young Hyun (*with* Jung, Bae Eun) The dimension of the determinantal scheme $V_s(t, t, 2)$ of the catalecticant matrix. (English summary) **2001d:13011**
Divaani-Aazar, K. (*with* Payrovi, Sh.) Reduced atomic chains of Artinian modules. (English summary) **2001k:13029**
Goto, Shiro (*with* Nishida, Kenji) Catenarity in module-finite algebras. (English summary) (*see* **2001m:16001**)
Jarboui, Noômen *see* **Ben Nasr, Mabrouk, 2001d:13004**
Jiang, Zi Fang *see* **Yin, Jiu Mei**
Jung, Bae Eun *see* **Cho, Young Hyun, 2001d:13011**
Kleiman, Steven L. (*with* Thorup, Anders) Conormal geometry of maximal minors. (English summary) **2001h:13006**
Miyazaki, Mitsuhiro (*with* Yoshino, Yuji) On heights and grades of determinantal ideals. **2001m:13016**
Nishida, Kenji *see* **Goto, Shiro, (2001m:16001)**
Payrovi, Sh. *see* **Divaani-Aazar, K., 2001k:13029**
Rocco, Noraí Romeu *see* **Brumatti, Paulo Roberto, 2001d:13020**
Tang, Gao Hua On Noetherian modules over commutative rings. (English and Chinese summaries) **2001h:13025**
Thorup, Anders *see* **Kleiman, Steven L., 2001h:13006**
Yin, Jiu Mei (*with* Jiang, Zi Fang) A note on Krull dimensions and homological dimensions for coordinate rings of affine algebraic varieties. (Chinese. English and Chinese summaries)
Yoshino, Yuji *see* **Miyazaki, Mitsuhiro, 2001m:13016**

13C20 Class groups [see also 11R29]

Anderson, David F. (*with* El Baghdadi, Said; Kabbaj, Salah-Eddine) On the class group of $A + XB[X]$ domains. **2001e:13015**
— (*with* Chapman, Scott T.) On the elasticities of Krull domains with finite cyclic divisor class group. (English summary) **2001g:13023**
Baba, Kiyoshi Picard groups and relative invariants. I. (English summary) **2001b:13014**
Bazzoni, Silvana Groups in the class semigroup of a Prüfer domain of finite character. (English summary) **2001i:13012**
Chapman, Scott T. *see* **Anderson, David F., 2001g:13023**
El Baghdadi, Said *see* **Anderson, David F. et al., 2001e:13015**
Fuchs, László[1] On the class semigroups of Prüfer domains. (English summary) **2001b:13015**
Gabelli, Stefania (*with* Tartarone, Francesca) On the class group of integer-valued polynomial rings over Krull domains. (English summary) **2001d:13010**
Kabbaj, Salah-Eddine *see* **Anderson, David F. et al., 2001e:13015**
Močkoř, Jiří Divisor class group and theory of quasi-divisors. (English summary) **2001g:13024**
Tang, Xiang Dong Lattices of compatible preorders on Picard groups of commutative rings. (Chinese. English and Chinese summaries) **2001m:13015**
Tartarone, Francesca *see* **Gabelli, Stefania, 2001d:13010**

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Baba, Kiyoshi Picard groups and relative invariants. II. (English summary) **2001e:13007**
Cahen, Paul-Jean (*with* Gabelli, Stefania; Houston, Evan) Mori domains of integer-valued polynomials. (English summary) **2001g:13044**
Gabelli, Stefania *see* **Cahen, Paul-Jean et al., 2001g:13044**
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Kainrath, Florian A divisor-theoretic approach towards the arithmetic of Noetherian domains. (English summary) **2001f:13002**
Kim, Hwankoo The distribution of prime divisors in Krull monoid domains. (English summary) **2001k:13030**
Reyes Sánchez, M. V. (*with* Verschoren, Alain) ★ Classical and involutive invariants of Krull domains. (English summary) **2001a:13034**
Scheidler, R. Cryptography in quadratic function fields. (English summary) **2001m:94049**
Verschoren, Alain *see* **Reyes Sánchez, M. V., 2001a:13034**

13C40 Linkage, complete intersections and determinantal ideals [see also 14M06, 14M10, 14M12]

Böger, Erwin (*with* Storch, Uwe) A remark on Bezout's theorem. (English summary) **2001a:13017**
Cho, Young Hyun (*with* Jung, Bae Eun) The dimension of the determinantal scheme $V_s(t, t, 2)$ of the catalecticant matrix. (English summary) **2001d:13011**
Goto, Shiro (*with* Haraikawa, Satoshi; Iai, Shin-Ichiro) Complete intersection in overrings of a certain one-dimensional Gorenstein graded local ring. **2001k:13019**
Haraikawa, Satoshi *see* **Goto, Shiro et al., 2001k:13019**
Iai, Shin-Ichiro *see* **Goto, Shiro et al., 2001k:13019**
Jiang, Guangfeng Conormal modules via primitive ideals. (English summary) **2001g:13025**
Johnson, Mark Ray Licci ideals and the non-almost complete intersection locus. (English summary) **2001c:13019**
Jung, Bae Eun *see* **Cho, Young Hyun, 2001d:13011**
Kang, Oh-Jin (*with* Ko, Hyoung June) The generators of complete intersection. (English summary) **2001i:13013**
Ko, Hyoung June *see* **Kang, Oh-Jin, 2001i:13013**
Kustin, Andrew R. Complexes associated to two vectors and a rectangular matrix. (English summary) **2001a:13018**
Martin, Heath M. Linkage and the generic homology of modules. **2001h:13015**
Miyazaki, Mitsuhiro (*with* Yoshino, Yuji) On heights and grades of determinantal ideals. **2001m:13016**
Storch, Uwe *see* **Böger, Erwin, 2001a:13017**
Yoshino, Yuji *see* **Miyazaki, Mitsuhiro, 2001m:13016**

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Avramov, Luchezar L. (*with* Buchweitz, Ragnar-Olaf) Support varieties and cohomology over complete intersections. **2001j:13017**
Bruns, Winfried (*with* Kwieciński, Michał) Generic graph construction ideals and Greene's theorem. **2001i:13006**
Buchweitz, Ragnar-Olaf *see* **Avramov, Luchezar L., 2001j:13017**
Casanellas, Marta (*with* Miró Roig, Rosa Maria) Gorenstein liaison of curves in $\mathbf{P}^4$. **2001g:14082**
Conca, Aldo Hilbert function and resolution of the powers of the ideal of the rational normal curve. (English summary) **2001h:13018**
Einsiedler, Manfred (*with* Ward, Thomas B.) Fitting ideals for finitely presented algebraic dynamical systems. (English summary) **2001j:22007**
Goodearl, Kenneth R. (*with* Lenagan, Thomas H.) Prime ideals in certain quantum determinantal rings. (English summary) **2001k:16081**
— (*with* Lenagan, Thomas H.) Quantum determinantal ideals. **2001k:16080**
Hashimoto, Mitsuyasu Homological aspects of equivariant modules: Matijevic-Roberts and Buchsbaum-Rim. (English summary) **2001a:13025**
Iarrobino, Anthony (*with* Kanev, Vassil) ★ Power sums, Gorenstein algebras, and determinantal loci. **2001d:14056**
Isogawa, Satoru *see* **Yoshino, Yuji, 2001f:13018**
Kanev, Vassil *see* **Iarrobino, Anthony, 2001d:14056**
(Kleiman, Steven L.) *see* **Iarrobino, Anthony, 2001d:14056**
Kreuzer, Martin (*with* Migliore, Juan C.; Peterson, Christopher S.; Nagel, Uwe) Determinantal schemes and Buchsbaum-Rim sheaves. (English summary) **2001f:14092**
Kwieciński, Michał *see* **Bruns, Winfried, 2001i:13006**
Laubenbacher, Reinhard C. (*with* Swanson, Irena) Permanental ideals. (English summary) **2001i:13039**
Lenagan, Thomas H. *see* **Goodearl, Kenneth R., 2001k:16080** *and* **2001k:16081**
Migliore, Juan C. *see* **Kreuzer, Martin et al., 2001f:14092**
Miró Roig, Rosa Maria *see* **Casanellas, Marta, 2001g:14082**
Nagel, Uwe *see* **Kreuzer, Martin et al., 2001f:14092**
Nollet, Scott Integral subschemes of codimension two. (English summary) **2001c:14075**
Peterson, Christopher S. *see* **Kreuzer, Martin et al., 2001f:14092**
Simis, Aron (*with* Ulrich, Bernd) On the ideal of an embedded join. **2001f:13031**
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Ulrich, Bernd *see* **Simis, Aron, 2001f:13031**
Ward, Thomas B. *see* **Einsiedler, Manfred, 2001j:22007**
Yoshino, Yuji (*with* Isogawa, Satoru) Linkage of Cohen-Macaulay modules over a Gorenstein ring. (English summary) **2001f:13018**
Zaare-Nahandi, Rahim (*with* Zaare-Nahandi, Rashid) Gröbner basis and free resolution of the ideal of 2-minors of a $2 \times n$ matrix of linear forms. (English summary) **2001f:13020**
Zaare-Nahandi, Rashid *see* **Zaare-Nahandi, Rahim, 2001f:13020**

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13C99 None of the above, but in this section

Jukl, Marek Galois triangle theory for direct summands of modules. (English summary)
Makamba, B. B. (*with* Murali, V.) Primary decompositions of fuzzy submodules. (English summary) **2001h:13016**
— (*with* Murali, V.) On prime fuzzy submodules and radicals. (English summary) **2001i:13014**
Mishref, M. Atif A. *see* **Sidky, F. I.**
Murali, V. *see* **Makamba, B. B., 2001h:13016** *and* **2001i:13014**
Sidky, F. I. Fuzzy localization of modules. (English summary) **2001h:13017**
— (*with* Mishref, M. Atif A.) On prime fuzzy submodules. (English summary)

— On radicals of fuzzy submodules and primary fuzzy submodules. (English summary) **2001k:13020**

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Barile, Margherita (*with* Morales, Marcel; Thoma, Apostolos) On simplicial toric varieties which are set-theoretic complete intersections. (English summary) **2001i:14066**
Divaani-Aazar, K. (*with* Tousi, Massoud) Some remarks on coassociated primes. (English summary) **2001b:13003**
Iyengar, Srikanth Free summands of conormal modules and central elements in homotopy Lie algebras of local rings. (English summary) **2001h:13022**
Morales, Marcel *see* **Barile, Margherita et al., 2001i:14066**
Olberding, Bruce Homomorphisms and duality for torsion-free modules. (English summary) **2001m:20095**
Planas-Vilanova, Francesc The strong uniform Artin-Rees property in codimension one. **2001g:13051**
Thoma, Apostolos *see* **Barile, Margherita et al., 2001i:14066**
Tousi, Massoud *see* **Divaani-Aazar, K., 2001b:13003**

13Dxx Homological methods {For noncommutative rings, see 16Exx; for general categories, see 18Gxx.}

13D02 Syzygies and resolutions

Adams, William W. (*with* Loustaunau, Philippe) Analysis of the module determining the properties of regular functions of several quaternionic variables. (English summary) **2001k:13021**
de Alwis, Tilak Free minimal resolutions and the Betti numbers of the suspension of an n-gon. (English summary) **2001a:13019**
Aramova, Annetta (*with* Herzog, Jürgen; Hibi, Takayuki) Ideals with stable Betti numbers. (English summary) **2001d:13012**
— (*with* Herzog, Jürgen; Hibi, Takayuki) Shifting operations and graded Betti numbers. (English summary) **2001k:13022**
Bayer, Dave (*with* Charalambous, Hara; Popescu, Sorin) Extremal Betti numbers and applications to monomial ideals. **2001a:13020**
Campillo, Antonio (*with* Gimenez, Philippe) Syzygies of affine toric varieties. (English summary) **2001j:13014**
Chang, Shou-Te An algorithm for calculating Betti numbers of manageable modules. (English summary) **2001d:13013**
Charalambous, Hara *see* **Bayer, Dave et al., 2001a:13020**
Conca, Aldo Hilbert function and resolution of the powers of the ideal of the rational normal curve. (English summary) **2001h:13018**
— Universally Koszul algebras. **2001c:13020**
Crupi, Marilena (*with* Utano, Rosanna) Some remarks on the Betti numbers of squarefree ideals. (English summary) **2001m:13017**
Dugger, Daniel Betti numbers of almost complete intersections. (English summary) **2001f:13019**
Eliahou, Shalom (*with* Villarreal, Rafael H.) The second Betti number of an edge ideal. (English summary) **2001e:13016**
Ene, Viviana (*with* Pfister, Gerhard; Popescu, Dorin) Betti numbers for p-stable ideals. **2001a:13021**
— Stable ideals and Eliahou-Kervaire type resolutions. **2001a:13022**
Fröberg, Ralf (*with* Roos, Jan-Erik) An affine monomial curve with irrational Poincaré-Betti series. (English summary) **2001e:13017**
Gallego, F. J. (*with* Purnaprajna, B. P.) Erratum to the paper: "Projective normality and syzygies of algebraic surfaces" [J. Reine Angew. Math. **506** (1999), 145–180; MR 2000a:13023]. **2001b:13016**
Gasharov, Vesselin (*with* Peeva, Irena; Welker, Volkmar) The lcm-lattice in monomial resolutions. **2001e:13018**
Gimenez, Philippe *see* **Campillo, Antonio, 2001j:13014**
Herzog, Jürgen (*with* Li Marzi, Enzo Maria) Bounds for the Betti numbers of shellable simplicial complexes and polytopes. **2001b:13017**
— (*with* Hibi, Takayuki; Restuccia, Gaetana) Strongly Koszul algebras. **2001a:13023**
— *see also* **Aramova, Annetta et al., 2001d:13012** *and* **2001k:13022**
Hibi, Takayuki *see* **Herzog, Jürgen et al., 2001a:13023**; **Aramova, Annetta et al., 2001d:13012** *and* **2001k:13022**
de Jong, Theo (*with* van Straten, Duco) Projective resolutions associated to projections. (English summary) **2001h:13019**
Kreuzer, Martin On the canonical ideal of a set of points. (Italian summary) **2001g:13026**
Lee, Kisuk Some remarks on Ding's vanishing theorem of δ-invariant and monomial conjecture. (English summary) **2001b:13018**
— Computation of numerical invariants col(-), row(-) for a ring $k[t^r, t^{e+1}, t^{(e-1)e-1}]$. (English summary) **2001g:13027**
Li Marzi, Enzo Maria *see* **Herzog, Jürgen, 2001b:13017**
Loustaunau, Philippe *see* **Adams, William W., 2001k:13021**
Maeda, Takashi[1] Generic G-linear maps. (English summary) **2001k:13023**
Martsinkovsky, Alex New homological invariants for modules over local rings. II. (English summary) **2001h:13020**
Migliore, Juan C. (*with* Nagel, Uwe; Peterson, Christopher S.) Constructing schemes with prescribed cohomology in arbitrary codimension. (English summary) **2001g:13028**
Nagel, Uwe *see* **Migliore, Juan C. et al., 2001g:13028**
O'Carroll, Liam (*with* Popescu, Dorin) Free resolutions for deformations of maximal Cohen-Macaulay modules. (English summary) **2001i:13015**
Peeva, Irena (*with* Reiner, Victor; Welker, Volkmar) Cohomology of real diagonal subspace arrangements via resolutions. (English summary) **2001c:13021**
— *see also* **Gasharov, Vesselin et al., 2001e:13018**
Peterson, Christopher S. *see* **Migliore, Juan C. et al., 2001g:13028**
Pfister, Gerhard *see* **Ene, Viviana et al., 2001a:13021**
Popescu, Dorin *see* **Ene, Viviana et al., 2001a:13021** *and* **O'Carroll, Liam, 2001i:13015**
Popescu, Sorin *see* **Bayer, Dave et al., 2001a:13020**
Purnaprajna, B. P. *see* **Gallego, F. J., 2001b:13016**
Reiner, Victor *see* **Peeva, Irena et al., 2001c:13021**
Restuccia, Gaetana *see* **Herzog, Jürgen et al., 2001a:13023**
Roos, Jan-Erik *see* **Fröberg, Ralf, 2001e:13017**
van Straten, Duco *see* **de Jong, Theo, 2001h:13019**
Utano, Rosanna *see* **Crupi, Marilena, 2001m:13017**
Villarreal, Rafael H. *see* **Eliahou, Shalom, 2001e:13016**
Welker, Volkmar *see* **Peeva, Irena et al., 2001c:13021** *and* **Gasharov, Vesselin et al., 2001e:13018**
Yuzvinsky, Sergey Taylor and minimal resolutions of homogeneous polynomial ideals. **2001i:13016**
Zaare-Nahandi, Rahim (*with* Zaare-Nahandi, Rashid) Gröbner basis and free resolution of the ideal of 2-minors of a $2 \times n$ matrix of linear forms. (English summary) **2001f:13020**
Zaare-Nahandi, Rashid *see* **Zaare-Nahandi, Rahim, 2001f:13020**

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13Exx Chain conditions, finiteness conditions

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Heinzer, William (*with* Rotthaus, Christel; Wiegand, Sylvia M.) Building Noetherian domains inside an ideal-adic completion. II. (English summary) **2001h:13011**
Itoh, Shiroh Arrangements of ideals in a commutative algebra. (English summary) **2001b:13005**
Kingsbury, Alan K. (*with* Sharp, Rodney Y.) Asymptotic behaviour of integral closures of ideals. **2001c:13011**
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13E10 Artinian rings and modules, finite-dimensional algebras

Ameziane Hassani, Souâd (*with* Kabbaj, Salah-Eddine) Group rings $R[G]$ with 4-generated ideals when R is an Artinian ring with the 2-generator property. **2001i:13021**
Boij, Mats Artin level modules. (English summary) **2001e:13024**
Divaani-Aazar, K. (*with* Tousi, Massoud) Asymptotic attached primes related to flat modules. (English summary) **2001m:13027**
— (*with* Payrovi, Sh.) Reduced atomic chains of Artinian modules. (English summary) **2001k:13029**
Kabbaj, Salah-Eddine *see* **Ameziane Hassani, Souâd, 2001i:13021**
Mikhailov, D. A. Polylinear shift registers and standard bases. (English summary) **2001f:13022**
Payrovi, Sh. *see* **Divaani-Aazar, K., 2001k:13029**
Tousi, Massoud A note on the dual of Burch's inequality. (English summary) **2001c:13026**
— *see also* **Divaani-Aazar, K., 2001m:13027**

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Chen, Hao[1] (*with* Seeley, Craig; Yau, Stephen S.-T.) Algebraic determination of isomorphism classes of the moduli algebras of $\widetilde{E}_6$ singularities. **2001j:14007**
Huibregtse, Mark E. Some amplifications and a correction of Iarrobino's construction of local parameters on $\mathrm{Hilb}^n_{\mathbb{P}^2_k}$. (English summary) **2001e:14008**
Lee, Kyoung Hee On fuzzy quotient rings and chain conditions. (English summary) **2001g:16041**
Schoutens, Hans Existentially closed models of the theory of Artinian local rings. (English summary) **2001g:03068**
Seeley, Craig *see* **Chen, Hao[1] et al., 2001j:14007**
Yau, Stephen S.-T. *see* **Chen, Hao[1] et al., 2001j:14007**

13E15 Rings and modules of finite generation or presentation; number of generators

Gueye, Cheikh Thiécoumba (*with* Sangharé, Mamadou) On commutative FGS-rings with ascending condition on annihilators. (*see* **2001j:13001**)
Okon, James S. (*with* Vicknair, J. Paul) Commutative monoid rings with n-generated ideals. **2001e:13025**
Sangharé, Mamadou *see* **Gueye, Cheikh Thiécoumba, (2001j:13001)**
Vicknair, J. Paul *see* **Okon, James S., 2001e:13025**

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Daigle, Daniel (*with* Freudenburg, Gene) A note on triangular derivations of $k[X_1, X_2, X_3, X_4]$. (English summary) **2001f:13043**
Freudenburg, Gene *see* **Daigle, Daniel, 2001f:13043**
Kabbaj, Salah-Eddine *see* **Ameziane Hassani, Souâd, 2001i:13021**
Okon, James S. (*with* Vicknair, J. Paul) A Gorenstein ring with larger Dilworth number than Sperner number. (English summary) **2001b:13031**
Vicknair, J. Paul *see* **Okon, James S., 2001b:13031**

13E99 None of the above, but in this section

Dumitrescu, Tiberiu (*with* Shah, Tariq; Zafrullah, Muhammad) Domains whose overrings satisfy ACCP. (English summary) **2001f:13026**
Shah, Tariq *see* **Dumitrescu, Tiberiu et al., 2001f:13026**
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13Fxx Arithmetic rings and other special rings

13F05 Dedekind, Prüfer and Krull rings and their generalizations

Cahen, Paul-Jean (*with* Chabert, Jean-Luc; Frisch, Sophie) Interpolation domains. (English summary) **2001b:13024**
Chabert, Jean-Luc *see* **Cahen, Paul-Jean et al., 2001b:13024**
Chang, Gyu Whan (*with* Kang, Byung Gyun) On Krull overrings of a Marot ring whose regular ideals are finitely generated. (English summary) **2001d:13018**
Del Corso, Ilaria Kronecker's method of indeterminate coefficients. (English summary) **2001g:13040**
DeMeyer, Frank (*with* Kakakhail, Haniya) Almost triangular matrices over Dedekind domains. (English summary) **2001b:13025**
Ershov, Yurii Leonidovich Almost regular Prüfer rings. (Russian. Russian summary) **2001e:13026**
Frisch, Sophie *see* **Cahen, Paul-Jean et al., 2001b:13024**
Fuchs, László[1] (*with* Vámos, P.) The Jordan-Zassenhaus theorem and direct decompositions. **2001e:13027**
— (*with* Lee, Sang Bum[1]) Stacked bases over h-local Prüfer domains. (English summary) **2001m:13028**
Gabelli, Stefania Prüfer (##)-domains and localizing systems of ideals. **2001d:13019**
Kakakhail, Haniya *see* **DeMeyer, Frank, 2001b:13025**
Kang, Byung Gyun *see* **Chang, Gyu Whan, 2001d:13018**
Kim, Hwankoo (*with* Park, Young Soo) Krull domains of generalized power series. (English summary) **2001i:13023**
— The distribution of prime divisors in Krull monoid domains. (English summary) **2001k:13030**
Lee, Sang Bum[1] *see* **Fuchs, László[1], 2001m:13028**
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Reyes Sánchez, M. V. (*with* Verschoren, Alain) ★ Classical and involutive invariants of Krull domains. (English summary) **2001a:13034**
Ries, Heather (*with* Shlapentokh, Alexandra) Holomorphy modules of number fields and function fields. (English summary) **2001a:13035**
Shlapentokh, Alexandra *see* **Ries, Heather, 2001a:13035**
Vámos, P. *see* **Fuchs, László[1], 2001e:13027**
Verschoren, Alain *see* **Reyes Sánchez, M. V., 2001a:13034**

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Anderson, Daniel D. (*with* Zafrullah, Muhammad) Independent locally-finite intersections of localizations. (English summary) **2001a:13001**
Anderson, David F. (*with* El Baghdadi, Said; Kabbaj, Salah-Eddine) On the class group of $A + XB[X]$ domains. **2001e:13015**
— (*with* Chapman, Scott T.) On the elasticities of Krull domains with finite cyclic divisor class group. (English summary) **2001g:13023**
Bazzoni, Silvana Groups in the class semigroup of a Prüfer domain of finite character. (English summary) **2001i:13012**
Cahen, Paul-Jean (*with* Chabert, Jean-Luc; Dobbs, David E.; Tartarone, Francesca) On locally divided domains of the form $\mathrm{Int}(D)$. (English summary) **2001b:13026**
— (*with* Loper, K. Alan; Tartarone, Francesca) Integer-valued polynomials and Prüfer v-multiplication domains. (English summary) **2001i:13025**
Chabert, Jean-Luc *see* **Cahen, Paul-Jean et al., 2001b:13026**
Chapman, Scott T. (*with* Herr, Jeremy; Rooney, Natalie) A factorization formula for class number two. (English summary) **2001d:11105**
— *see also* **Anderson, David F., 2001g:13023**
Dobbs, David E. A conductor theorem. (English summary) **2001m:13037**
— Integral domains with almost integral proper overrings. (English summary) **2001m:13038**
— *see also* **Cahen, Paul-Jean et al., 2001b:13026**
Dumitrescu, Tiberiu (*with* Shah, Tariq; Zafrullah, Muhammad) Domains whose overrings satisfy ACCP. (English summary) **2001f:13026**
El Baghdadi, Said *see* **Anderson, David F. et al., 2001e:13015**
Fontana, Marco (*with* Izelgue, Lahoucine; Kabbaj, Salah-Eddine; Tartarone, Francesca) Polynomial closure in essential domains and pullbacks. (English summary) **2001g:13045**
Fu, Guang (*with* Gilmer, Robert) Primary decomposition of ideals in polynomial rings. **2001d:13021**
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Gabelli, Stefania (*with* Tartarone, Francesca) On the class group of integer-valued polynomial rings over Krull domains. (English summary) **2001d:13010**
Gao, Wei Dong (*with* Geroldinger, Alfred) Systems of sets of lengths. II. **2001m:11192**
Geroldinger, Alfred *see* **Gao, Wei Dong, 2001m:11192**
Gilmer, Robert *see* **Fu, Guang, 2001d:13021**
Goeters, H. Pat (*with* Olberding, Bruce) Faithfulness and cancellation over Noetherian domains. **2001e:13030**
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Kabbaj, Salah-Eddine (*with* Lucas, Thomas G.; Mimouni, Abdeslam) Trace properties and integral domains. **2001d:13026**
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Matsuda, Ryûki On a question posed by Huckaba-Papick. III. (English summary) **2001i:13030**
Miles, Richard Craig Dynamical systems arising from units in Krull rings. (English summary) **2001m:37006**
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Okabe, Akira On quasi-valuation domains. **2001i:13033**
Olberding, Bruce Factorization into prime and invertible ideals. (English summary) **2001i:13003**
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Soto, José J. M. Hochschild homology of rings of algebraic integers. (English summary) **2001f:13021**
Tartarone, Francesca Divisorial prime ideals of $\mathrm{Int}(D)$ when D is a Krull-type domain. (English summary) **2001g:13048**
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Yin, Jiu Mei The Morita equivalence for Dedekind rings. (Chinese. English and Chinese summaries) **2001m:16008**
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13F07 Euclidean rings and generalizations

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Cavallar, Stefania (*with* Lemmermeyer, Franz) Euclidean windows. (English summary) **2001m:11180**
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13F10 Principal ideal rings

Artemovich, O. D. Rigid commutative principal ideal rings. (Ukrainian summary)
Kuz'min, Yu. V. On a construction of principal ideal rings. (Russian. English and Russian summaries) **2001m:13029**

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Carboni, Graciela (*with* Larotonda, Angel) An example of a Fréchet algebra which is a principal ideal domain. (English summary) **2001c:46095**
DeMeyer, Frank (*with* Kakakhail, Haniya) Almost triangular matrices over Dedekind domains. (English summary) **2001b:13025**
Ito, Naoharu (*with* Schmale, Wiland; Wimmer, Harald K.) (C, A)-invariance of modules over principal ideal domains. (English summary) **2001h:93017**
Kakakhail, Haniya *see* **DeMeyer, Frank, 2001b:13025**
Larotonda, Angel *see* **Carboni, Graciela, 2001c:46095**
Picavet-L'Hermitte, Martine Factorization in some orders with a PID as integral closure. (English summary) **2001h:13001**
Schmale, Wiland *see* **Ito, Naoharu et al., 2001h:93017**
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Zvyagina, M. B. Local duality for modules over Noetherian commutative rings. (Russian. English and Russian summaries) **2001c:13025**

13F15 Factorial rings, unique factorization domains [see also 14M05]

Anderson, Daniel D. Extensions of unique factorization: a survey. **2001h:13026**
Coykendall, Jim Half-factorial domains in quadratic fields. (English summary) **2001j:13018**
Fried, Ervin Walks around unique factorization. (Hungarian. English summary) **2001a:13036**
Li, Aihua Birational extensions of a Noetherian UFD. **2001c:13027**
Li, Shi Qun² Prime elements conditions and factorization properties for some integral domains. (Chinese. English and Chinese summaries)
Marcelo Vega, Agustín (*with* Muñoz Masqué, J.) Projective dimension in UFDs. (English summary) **2001g:13041**
Muñoz Masqué, J. *see* **Marcelo Vega, Agustín, 2001g:13041**

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Kim, Hwankoo Examples of half-factorial domains. (English summary) **2001c:13001**
Li, Aihua Prime elements of birational extensions of a Noetherian UFD. (English summary) **2001i:13007**
Loepp, S. Formal fibers at height one prime ideals. (English summary) **2001f:13014**

13F20 Polynomial rings and ideals; rings of integer-valued polynomials [see also 11C08, 13B25]

Aleksandrov, Aleksandr G. A primitive ideal and the inverse Macaulay system. (Russian. Russian summary) **2001j:13019**
Al-Salihi, Sinan O. Ibrahim *see* **Dumitrescu, Tiberiu et al., 2001a:13037**
Altmann, Klaus The chain property for the associated primes of $\mathscr{M}$-graded ideals. (English summary) **2001k:13031**
Ameziane Hassani, Souâd (*with* Echi, Othman; Yengui, Ihsen) Direct systems of localizations of polynomial rings. (English summary) **2001i:13024**
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Blum, Stefan Initially Koszul algebras. **2001m:13030**
Bouc, Serge Polynomial ideals and classes of finite groups. (English summary) **2001j:13020**
Boulanger, Jacques (*with* Chabert, Jean-Luc; Evrard, S.; Gerboud, G.) The characteristic sequence of integer-valued polynomials on a subset. (English summary) **2001f:13027**
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Brumatti, Paulo Roberto (*with* Rocco, Noraí Romeu) On the subalgebra of polynomials generated by all binomials $x^n + y^n$, n a prime number. (English summary) **2001d:13020**
Cahen, Paul-Jean (*with* Chabert, Jean-Luc) Skolem properties and integer-valued polynomials: a survey. (English summary) **2001e:13028**
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— (*with* Loper, K. Alan; Tartarone, Francesca) Integer-valued polynomials and Prüfer v-multiplication domains. (English summary) **2001i:13025**
— (*with* Gabelli, Stefania; Houston, Evan) Mori domains of integer-valued polynomials. (English summary) **2001g:13044**
Chabert, Jean-Luc *see* **Cahen, Paul-Jean et al., 2001b:13026; 2001e:13028; Boulanger, Jacques et al., 2001f:13027; 2001g:13043** *and* **2001m:13031**
Coquand, Thierry (*with* Persson, Henrik) Valuations and Dedekind's Prague theorem. (English summary) **2001m:13032**
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Dutta, Amartya Kumar On separable $\mathbf{A}^1$-forms. (English summary) **2001j:13021**
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van den Essen, Arno (*with* van Rossum, Peter) A note on possible counterexamples to the Abhyankar-Sathaye conjecture constructed by Shpilrain and Yu. (English summary) **2001j:13022**
Evrard, S. *see* **Boulanger, Jacques et al., 2001f:13027**
Faith, Carl Associated primes in commutative polynomial rings. (English summary) **2001a:13038**
Fontana, Marco (*with* Izelgue, Lahoucine; Kabbaj, Salah-Eddine; Tartarone, Francesca) Polynomial closure in essential domains and pullbacks. (English summary) **2001g:13045**
Fu, Guang (*with* Gilmer, Robert) Primary decomposition of ideals in polynomial rings. **2001d:13021**
Gabelli, Stefania *see* **Cahen, Paul-Jean et al., 2001g:13044**
Gately, John F. Unique factorization of $*$-products of one-fibered monomial ideals. (English summary) **2001g:13046**
Gerboud, G. *see* **Boulanger, Jacques et al., 2001f:13027**
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Golubitskiĭ, O. D. *see* **Astrelin, A. V. et al., 2001g:13042**
Guerrieri, Anna (*with* Swanson, Irena) Jacobian ideals of trilinear forms: an application of 1-genericity. **2001f:13029**
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Hibi, Takayuki *see* **Ohsugi, Hidefumi et al., 2001k:13032**
Hou, Wei Min An application of permutations in the factorization of a multi-polynomial ring. (Chinese. English and Chinese summaries)
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Li, Aihua Spectra of birational extensions of $\mathbf{Z}[x]$. (English summary) **2001f:13030**
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Loper, K. Alan *see* **Cahen, Paul-Jean et al., 2001i:13025**
Lu, Peizhong (*with* Liu, Mu Lan) A formula to determine zero-dimensional ideals being annihilating ideals of linear recurring arrays. (English summary) **2001i:13027**
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van der Merwe, A. B. *see* **Maxson, C. J., 2001m:13033**
Neumann, Konrad A criterion for the primeness of ideals generated by polynomials with separated variables. (English summary) **2001a:13039**
Ohsugi, Hidefumi (*with* Herzog, Jürgen; Hibi, Takayuki) Combinatorial pure subrings. **2001k:13032**
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Polo, Antonio (*with* Spangher, Walter) Scheme-theoretic generation for ideals generated by forms of the same degree: a nice formula. (English summary) **2001c:13029**
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Richman, Fred Smooth invariants and ω-graded modules over $k[X]$. (English summary)
Rocco, Noraí Romeu *see* **Brumatti, Paulo Roberto, 2001d:13020**
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Swanson, Irena *see* **Guerrieri, Anna, 2001f:13029**
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— *see also* **Cahen, Paul-Jean et al., 2001b:13026; 2001i:13025** *and* **Fontana, Marco et al., 2001g:13045**
Ulrich, Bernd *see* **Simis, Aron, 2001f:13031**
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Aramova, Annetta (*with* Herzog, Jürgen; Hibi, Takayuki) Shifting operations and graded Betti numbers. (English summary) **2001k:13022**
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Campbell, L. Andrew (*with* Yu, Jie-Tai) Two dimensional coordinate polynomials and dominant maps. (English summary) **2001c:14091**
Chabert, Jean-Luc *see* **Cahen, Paul-Jean et al., 2001b:13024**
Conca, Aldo (*with* Valla, Giuseppe) Betti numbers and lifting of Gorenstein codimension three ideals. (English summary) **2001a:13031**
Drensky, Vesselin S. (*with* Yu, Jie-Tai) Automorphisms and coordinates of polynomial algebras. (English summary) **2001k:14111**
— (*with* van den Essen, Arno; Stefanov, Dimitre) New stably tame automorphisms of polynomial algebras. (English summary) **2001e:13011**
Eliahou, Shalom (*with* Villarreal, Rafael H.) The second Betti number of an edge ideal. (English summary) **2001e:13016**
Ene, Viviana (*with* Pfister, Gerhard; Popescu, Dorin) Betti numbers for p-stable ideals. **2001a:13021**
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van den Essen, Arno *see* **Drensky, Vesselin S. et al., 2001e:13011**
Frisch, Sophie Polynomial functions on finite commutative rings. (English summary) **2001d:13006**
— *see also* **Cahen, Paul-Jean et al., 2001b:13024**
Gabelli, Stefania (*with* Tartarone, Francesca) On the class group of integer-valued polynomial rings over Krull domains. (English summary) **2001d:13010**
Herzog, Jürgen *see* **Aramova, Annetta et al., 2001k:13022**
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Honkala, Juha A short solution for the HDT0L sequence equivalence problem. (English summary) **2001g:68047**
Hu, Lei The structure and the cyclic module property of array spaces of type ideals with maximal product. (Chinese. Chinese summary) **2001d:94013**
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Miller, E. N. (*with* Sturmfels, Bernd; Yanagawa, Kohji) Generic and cogeneric monomial ideals. (English summary) **2001m:13051**
Notari, R. (*with* Spreafico, M. L.) A stratification of Hilbert schemes by initial ideals and applications. (English summary) **2001b:14008**
Ojeda Martínez de Castilla, Ignacio (*with* Piedra Sánchez, Ramón) Cellular binomial ideals. Primary decomposition of binomial ideals. (English summary) **2001g:13058**
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Popescu, Dorin *see* **Ene, Viviana et al., 2001a:13021**
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13F25 Formal power series rings [see also 13J05]

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13F30 Valuation rings [see also 13A18]

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Heinzer, William (*with* Rotthaus, Christel; Wiegand, Sylvia M.) Approximating discrete valuation rings by regular local rings. (English summary) **2001c:13031**
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13F40 Excellent rings

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13F45 Seminormal rings

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13F55 Face and Stanley-Reisner rings; simplicial complexes [see also 55U10]

Aramova, Annetta (*with* Herzog, Jürgen) Almost regular sequences and Betti numbers. (English summary) **2001i:13029**
Barile, Margherita (*with* Morales, Marcel) On Stanley-Reisner rings of reduction number one. (English summary) **2001m:13036**

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Močkoř, Jiří Construction of po-groups with quasi-divisors theory. (English summary) **2001c:13032**

13G05 Integral domains

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13Hxx Local rings and semilocal rings

13H05 Regular local rings

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Noh, Sunsook Valuation ideals of order one in 2-dimensional regular local rings. (English summary) **2001b:13028**
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Serre, Jean-Pierre ★ Local algebra. (English summary) **2001b:13001**
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13H10 Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [see also 14M05]

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Corso, Alberto (*with* Polini, Claudia) On residually S_2 ideals and projective dimension one modules. (English summary) **2001m:13040**
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Delfino, Donatella (*with* Leer, Leanne; Muntean, Raluca) A length inequality for one-dimensional local rings. **2001b:13030**
Frankild, Anders Quasi Cohen-Macaulay properties of local homomorphisms. (English summary) **2001j:13023**
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Huneke, Craig A cancellation theorem for ideals. (English summary) **2001h:13030**
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Leuschke, Graham (*with* Wiegand, Roger) Ascent of finite Cohen-Macaulay type. (English summary) **2001k:13035**
Levankov, V. I. The monomial conjecture and Buchsbaum modules. (Russian. English and Russian summaries) **2001k:13036**
Molinelli, Silvia (*with* Patil, D. P.; Tamone, Grazia) On the Cohen-Macaulayness of the coordinate ring of certain projective monomial curves. (English summary) **2001d:13027**
Muntean, Raluca *see* **Delfino, Donatella et al., 2001b:13030**
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Okon, James S. (*with* Vicknair, J. Paul) A Gorenstein ring with larger Dilworth number than Sperner number. (English summary) **2001b:13031**
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Verma, J. K. *see* **D'Cruz, Clare, 2001b:13029**
Vicknair, J. Paul *see* **Okon, James S., 2001b:13031**
Wiegand, Roger *see* **Leuschke, Graham, 2001k:13035**

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Campbell, H. E. A. (*with* Hughes, I. P.; Kemper, Gregor; Shank, R. J.; Wehlau, David L.) Depth of modular invariant rings. (English summary) **2001a:13004**
Cho, Young Hyun (*with* Jung, Bae Eun) The dimension of the determinantal scheme $V_s(t, t, 2)$ of the catalecticant matrix. (English summary) **2001d:13011**
D'Cruz, Clare Multigraded Rees algebras of m-primary ideals in local rings of dimension greater than one. (English summary) **2001j:13004**
Dibaei, M. T. (*with* Tousi, Massoud) A generalization of the dualizing complex structure and its applications. (English summary) **2001m:13022**
Duong Quôc Viêt On local reduction numbers and a-invariants of Rees algebras of good filtrations. **2001f:13005**
Enescu, Florian On the behavior of F-rational rings under flat base change. (English summary) **2001j:13007**
Enochs, Edgar E. (*with* Jenda, Overtoun M. G.; Xu, Jinzhong) A generalization of Auslander's last theorem. (English summary) **2001a:13015**
— (*with* Jenda, Overtoun M. G.) ★ Relative homological algebra. **2001h:16013**
— (*with* Jenda, Overtoun M. G.) Gorenstein injective, projective, and flat dimensions over Cohen-Macaulay rings. (English summary) **2001j:13016**
— (*with* Jenda, Overtoun M. G.) On D-Gorenstein modules. (English summary) **2001f:13017**

Goto, Shiro (*with* Iai, Shin-Ichiro) Embeddings of certain graded rings into their canonical modules. **2001f:13006**
— (*with* Haraikawa, Satoshi; Iai, Shin-Ichiro) Complete intersection in overrings of a certain one-dimensional Gorenstein graded local ring. **2001k:13019**
— Cohen-Macaulayness and negativity of A-invariants in Rees algebras associated to m-primary ideals of minimal multiplicity. (English summary) **2001e:13004**
Griffith, Phillip Induced formal deformations and the Cohen-Macaulay property. **2001h:13020**
Haraikawa, Satoshi *see* **Goto, Shiro et al., 2001k:13019**
Hashimoto, Mitsuyasu Homological aspects of equivariant modules: Matijevic-Roberts and Buchsbaum-Rim. (English summary) **2001a:13025**
Hellus, M. On the set of associated primes of a local cohomology module. (English summary) **2001m:13023**
Herrmann, Manfred (*with* Hyry, Eero; Korb, Thomas) On a-invariant formulas. (English summary) **2001j:13005**
Huckaba, Sam (*with* Marley, Thomas) On associated graded rings of normal ideals. **2001h:13004**
Hughes, I. P. *see* **Campbell, H. E. A. et al., 2001a:13004**
Huneke, Craig Hyman Bass and ubiquity: Gorenstein rings. (English summary) **2001m:13001**
Hyry, Eero (*with* Korb, Thomas) Reduction exponents and the Gorenstein property of blow-up algebras. **2001k:13002**
— Coefficient ideals and the Cohen-Macaulay property of Rees algebras. (English summary) **2001h:13005**
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Iai, Shin-Ichiro Action of finite groups on Rees algebras and Gorensteinness in invariant subrings. (English summary) **2001a:13007**
— *see also* **Goto, Shiro et al., 2001f:13006** *and* **2001k:13019**
Iarrobino, Anthony (*with* Kanev, Vassil) ★ Power sums, Gorenstein algebras, and determinantal loci. **2001d:14056**
Jenda, Overtoun M. G. *see* **Enochs, Edgar E. et al., 2001a:13015; 2001f:13017; 2001h:16013** *and* **2001j:13016**
Johnson, Mark Ray Licci ideals and the non-almost complete intersection locus. (English summary) **2001c:13019**
Jung, Bae Eun *see* **Cho, Young Hyun, 2001d:13011**
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Kurano, Kazuhiko On Roberts rings. (English summary) **2001j:13024**
Laubenbacher, Reinhard C. (*with* Swanson, Irena) Permanental ideals. (English summary) **2001i:13039**
Lee, Kisuk Some remarks on Ding's vanishing theorem of δ-invariant and monomial conjecture. (English summary) **2001b:13018**
— Computation of numerical invariants col(-), row(-) for a ring $k[t^e, t^{e+1}, t^{(e-1)e-1}]$. (English summary) **2001g:13027**
Marley, Thomas *see* **Huckaba, Sam, 2001h:13004**
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Polini, Claudia (*with* Ulrich, Bernd) Necessary and sufficient conditions for the Cohen-Macaulayness of blowup algebras. (English summary) **2001f:13007**
Rossi, Maria Evelina (*with* Valla, Giuseppe) Cohen-Macaulay local rings of embedding dimension $e + d - 3$. **2001e:13005**
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Singh, Anurag K. *see* **Miller, Claudia M., 2001h:13031**
Soto, José J. M. Gorenstein quotients by principal ideals of free Koszul homology. (English summary) **2001e:13021**
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Watanabe, Kei-ichi (*with* Yoshida, Ken-ichi[2]) Hilbert-Kunz multiplicity and an inequality between multiplicity and colength. (English summary) **2001h:13032**
Wehlau, David L. *see* **Campbell, H. E. A. et al., 2001a:13004**
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Yamagishi, Kikumichi The associated graded modules of Buchsbaum modules with respect to m-primary ideals in the equi-I-invariant case. **2001h:13007**
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13H15 Multiplicity theory and related topics [see also 14C17]

Allsop, Nicholas (*with* Lê Tuân Hoa) On the quotient between length and multiplicity. **2001c:13035**
Boda, E. (*with* Országhová, D.) On the multiplicity of $(X^a - Y^b, X^c - Y^d)$. (English summary) **2001f:13035**
Duong Quôc Viêt Mixed multiplicities of arbitrary ideals in local rings. **2001f:13036**
Kurano, Kazuhiko On Roberts rings. (English summary) **2001j:13024**
Lê Tuân Hoa *see* **Allsop, Nicholas, 2001c:13035**
Miller, Claudia M. (*with* Singh, Anurag K.) Intersection multiplicities over Gorenstein rings. (English summary) **2001h:13031**
Ngô Viêt Trung Positivity of mixed multiplicities. **2001m:13042**
Nguyen Duc Minh *see* **Nguyen Tu Cuong, 2001c:13036**
Nguyen Tu Cuong (*with* Nguyen Duc Minh) Lengths of generalized fractions of modules having small polynomial type. (English summary) **2001c:13036**
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13P99 None of the above, but in this section

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Zeng, Zhenbing *see* **Fu, Hongguang et al., 2001b:12018**
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Research on the theory and applications of computer algebra ★ Sūshiki shori ni okeru riron to ōyō no kenkyū. (Japanese) [Research on the theory and applications of computer algebra] **2001d:00048**

Symposium:

Research on the Theory and Applications of Computer Algebra ★ Sūshiki shori ni okeru riron to ōyō no kenkyū. (Japanese) [Research on the theory and applications of computer algebra] **2001d:00048**

14–XX Algebraic geometry

14–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Arbarello, Enrico) *see* **Mumford, David, 2001b:14001**
Debarre, Olivier ★ Tores et variétés abéliennes complexes. (French. English and French summaries) [Complex tori and abelian varieties] **2001f:14001**
Hulek, Klaus ★ Elementare algebraische Geometrie. (German. German summary) [Elementary algebraic geometry] **2001k:14001**
Kahanpää, Lauri *see* **Smith, Karen E. et al., 2001k:14002**
(Kato, Goro) *see* **Ueno, Kenji, 2001j:14001**
Kekäläinen, Pekka *see* **Smith, Karen E. et al., 2001k:14002**
Li, Huishi (*with* Van Oystaeyen, Freddy) ★ A primer of algebraic geometry. (English summary) **2001d:14001**
Manetti, Marco ★ Corso introduttivo alla geometria algebrica. (Italian) [Introduction to algebraic geometry] **2001f:14002**
Mumford, David ★ The red book of varieties and schemes. (English summary) **2001b:14001**
Smith, Karen E. (*with* Kahanpää, Lauri; Kekäläinen, Pekka; Traves, William N.) ★ An invitation to algebraic geometry. (English summary) **2001k:14002**
Traves, William N. *see* **Smith, Karen E. et al., 2001k:14002**
Ueno, Kenji ★ Algebraic geometry. 2. (English summary) **2001j:14001**
Van Oystaeyen, Freddy *see* **Li, Huishi, 2001d:14001**

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Lecture Notes in Mathematics *see* **Mumford, David, 2001b:14001**

Items with secondary classifications in 14–01

Bădescu, Lucian ★ Algebraic surfaces. (English summary) **2001k:14068**
Eisenbud, David (*with* Harris, Joseph Daniel) ★ The geometry of schemes. (English summary) **2001d:14002**
Harris, Joseph Daniel *see* **Eisenbud, David, 2001d:14002**
de Jong, Theo (*with* Pfister, Gerhard) ★ Local analytic geometry. (English summary) **2001c:32001**
(Mașek, Vladimir) *see* **Bădescu, Lucian, 2001k:14068**
Pfister, Gerhard *see* **de Jong, Theo, 2001c:32001**

14–02 Research exposition (monographs, survey articles)

Kuhlmann, Franz-Viktor Valuation theoretic and model theoretic aspects of local uniformization. **2001c:14001**

Items with secondary classifications in 14–02

Flenner, Hubert (*with* O'Carroll, Liam; Vogel, Wolfgang) ★ Joins and intersections. (English summary) **2001b:14010**
Greene, Brian R. Mirror symmetry: a brief review of the first 10 years. (English summary) **2001h:14050**
Muciño-Raymundo, Jesús Some problems of geometry in $\mathbf{R}^n$ and $\mathbf{C}^n$ for the XXIst century. (Spanish)
O'Carroll, Liam *see* **Flenner, Hubert et al., 2001b:14010**
Roy, Marie-Françoise Géométrie algébrique réelle. (French summary) [Real algebraic geometry] **2001i:14002**
Vogel, Wolfgang *see* **Flenner, Hubert et al., 2001b:14010**

14–03 Historical (must also be assigned at least one classification number from Section 01)

Freguglia, Paolo Remarks on Giuseppe Veronese's four-dimensional descriptive geometry. (Italian. English summary) (*see* **2001d:00049**)
Gray, Jeremy J. From the history of a simple group. **2001a:14001**
Hauser, Herwig Resolution of singularities 1860–1999. **2001g:14001**
Macbeath, A. Murray Hurwitz groups and surfaces. (English summary) **2001c:14002**
Reitberger, Heinrich The turbulent fifties in resolution of singularities. **2001c:14003**
Zappa, Guido The Roman algebro-geometric school from 1938 to 1946. (Italian) (*see* **2001d:00049**)

Items with secondary classifications in 14–03

Adachi, Norio Elliptic curves: from Fermat to Weil. **2001h:11003**
Klein, Felix On the order-seven transformation of elliptic functions. **2001i:14042**
(Levy, Silvio) *see* **Klein, Felix, 2001i:14042**
Patterson, S. J. Abel's theorem. **2001g:01026**
Roy, Marie-Françoise Géométrie algébrique réelle. (French summary) [Real algebraic geometry] **2001i:14002**
Serre, Jean-Pierre ★ Œuvres. Collected papers. IV. (French) **2001e:01037**

Items listed otherwise than by author

Collected Works:
  Serre, Jean-Pierre *see* **Serre, Jean-Pierre, 2001e:01037**

14–04 Explicit machine computation and programs (not the theory of computation or programming)

Bodnár, Gábor (*with* Schicho, Josef) A computer program for the resolution of singularities. **2001e:14001**
Dowbor, Piotr (*with* Hübner, Thomas) A computer algebra approach to sheaves over weighted projective lines. (English summary) **2001m:14001**
Greuel, Gert-Martin Computer algebra and algebraic geometry—achievements and perspectives. (English summary) **2001f:14003**
Hübner, Thomas *see* **Dowbor, Piotr, 2001m:14001**
Schicho, Josef *see* **Bodnár, Gábor, 2001e:14001**

Items with secondary classifications in 14–04

Giusti, Marc (*with* Hägele, Klemens; Lecerf, Grégoire; Marchand, Joël; Salvy, Bruno) The projective Noether Maple package: computing the dimension of a projective variety. (English summary) **2001f:68143**
Hägele, Klemens *see* **Giusti, Marc et al., 2001f:68143**
Kato, Takao (*with* Kikuchi, Satoru) A remark on Towse's estimate on Weierstrass weights of points on the Fermat curve. **2001i:14041**
Kikuchi, Satoru *see* **Kato, Takao, 2001i:14041**
Lecerf, Grégoire *see* **Giusti, Marc et al., 2001f:68143**
Marchand, Joël *see* **Giusti, Marc et al., 2001f:68143**
Salvy, Bruno *see* **Giusti, Marc et al., 2001f:68143**

14–06 Proceedings, conferences, collections, etc.

(Bost, Jean-Benoît) *see* **Semistable curves and the fundamental group in algebraic geometry, 2001b:14004**
(Brasselet, Jean-Paul) *see* **Singularities—Sapporo 1998, 2001j:14003**
(Corti, Alessio) *see* **Explicit birational geometry of 3-folds, 2001f:14004**
(Faber, Carel) *see* **Moduli of abelian varieties, 2001j:14002**
(van der Geer, Gerard) *see* **Moduli of abelian varieties, 2001j:14002**
(Gordon, B. Brent) *see* **Arithmetic and geometry of algebraic cycles, 2001b:14002** *and* **2001b:14003**
(Göttsche, Lothar) *see* **School: Algebraic Geometry, 2001e:14002**
(Lewis, James D.) *see* **Arithmetic and geometry of algebraic cycles, 2001b:14002** *and* **2001b:14003**
(Loeser, François) *see* **Semistable curves and the fundamental group in algebraic geometry, 2001b:14004**
(Melles, Caroline Grant) *see* **Singularities in algebraic and analytic geometry, 2001f:14005**
(Michler, Ruth I.) *see* **Singularities in algebraic and analytic geometry, 2001f:14005**
(Müller-Stach, Stefan) *see* **Arithmetic and geometry of algebraic cycles, 2001b:14002** *and* **2001b:14003**
(Oort, Frans) *see* **Moduli of abelian varieties, 2001j:14002**
(Previato, Emma) *see* **Advances in algebraic geometry motivated by physics, 2001m:14002**
(Raynaud, Michel) *see* **Semistable curves and the fundamental group in algebraic geometry, 2001b:14004**
(Reid, Miles) *see* **Explicit birational geometry of 3-folds, 2001f:14004**
(Saito, Shuji[1]) *see* **Arithmetic and geometry of algebraic cycles, 2001b:14002** *and* **2001b:14003**
(Suwa, Tatsuo) *see* **Singularities—Sapporo 1998, 2001j:14003**
(Yui, Noriko) *see* **Arithmetic and geometry of algebraic cycles, 2001b:14002** *and* **2001b:14003**

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Advances in algebraic geometry motivated by physics ★ Advances in algebraic geometry motivated by physics. **2001m:14002**
Arithmetic and geometry of algebraic cycles ★ The arithmetic and geometry of algebraic cycles. **2001b:14002**
— ★ The arithmetic and geometry of algebraic cycles. **2001b:14003**
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— ★ The arithmetic and geometry of algebraic cycles. **2001b:14003**
Conference:
  Fundamental Group of Curves in Algebraic Geometry ★ Courbes semi-stables et groupe fondamental en géométrie algébrique. (French) [Semistable curves and the fundamental group in algebraic geometry] **2001b:14004**
Contemporary Mathematics ★ Singularities in algebraic and analytic geometry. **2001f:14005**
— ★ Advances in algebraic geometry motivated by physics. **2001m:14002**
Courbes semi-stables et groupe fondamental en géométrie algébrique ★ Courbes semi-stables et groupe fondamental en géométrie algébrique. (French) [Semistable curves and the fundamental group in algebraic geometry] **2001b:14004**
Explicit birational geometry of 3-folds ★ Explicit birational geometry of 3-folds. **2001f:14004**
Fundamental groups and algebraic functions ★ Kihon gun to daisū kansū. (Japanese) [Fundamental groups and algebraic functions] **2001m:14003**
Lowell, MA ★ Advances in algebraic geometry motivated by physics. **2001m:14002**
Luminy ★ Courbes semi-stables et groupe fondamental en géométrie algébrique. (French) [Semistable curves and the fundamental group in algebraic geometry] **2001b:14004**
Moduli of abelian varieties ★ Moduli of abelian varieties. **2001j:14002**
NATO Advanced Study Institute:
  Arithmetic and Geometry of Algebraic Cycles ★ The arithmetic and geometry of algebraic cycles. **2001b:14003**
Progress in Mathematics ★ Courbes semi-stables et groupe fondamental en géométrie algébrique. (French) [Semistable curves and the fundamental group in algebraic geometry] **2001b:14004**
— ★ Moduli of abelian varieties. **2001j:14002**
San Antonio, TX ★ Singularities in algebraic and analytic geometry. **2001f:14005**
Sapporo ★ Singularities—Sapporo 1998. **2001j:14003**
School:
  Algebraic Geometry ★ School on Algebraic Geometry. **2001e:14002**
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Semistable curves and the fundamental group in algebraic geometry ★ Courbes semi-stables et groupe fondamental en géométrie algébrique. (French) [Semistable curves and the fundamental group in algebraic geometry] **2001b:14004**
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Singularities in Algebraic and Analytic Geometry ★ Singularities in algebraic and analytic geometry. **2001f:14005**
Singularities in algebraic and analytic geometry ★ Singularities in algebraic and analytic geometry. **2001f:14005**
Singularities—Sapporo 1998 ★ Singularities—Sapporo 1998. **2001j:14003**
Singularity theory and its applications ★ Tokuiten ron to sono ōyō. [Singularity theory and its applications] **2001c:14004**
Symposium:
Singularities in Geometry and Topology ★ Singularities—Sapporo 1998. **2001j:14003**
Singularity Theory and its Applications ★ Tokuiten ron to sono ōyō. [Singularity theory and its applications] **2001c:14004**
Texel Island ★ Moduli of abelian varieties. **2001j:14002**
Trieste ★ School on Algebraic Geometry. **2001e:14002**

Items with secondary classifications in 14–06

(Coen, Salvatore) *see* **Seminar: Geometry, 2001d:00049**
(Fulton, William) *see* **Dedicated to William Fulton on the occasion of his 60th birthday, 2001d:00057**
(Golod, E. S.) *see* **Algebraic geometry, 2001e:00027**
(Iskovskikh, Vasilii Alekseevich) *see* **Algebraic geometry, 2001e:00027**
(Yau, Shing-Tung) *see* **Surveys in differential geometry: differential geometry inspired by string theory, 2001d:00024**

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Algebraic geometry ★ Algebraic geometry. 10. **2001e:00027**
Algorithms for D-modules ★ D-kagun no arugorizumu. (Japanese) [Algorithms for D-modules] **2001h:00018**
Birthday:
Fulton, William ★ {Dedicated to William Fulton on the occasion of his 60th birthday}. **2001d:00057**
Iskovskikh, Vasilii Alekseevich ★ Algebraic geometry. 10. **2001e:00027**
Bologna ★ Seminari di Geometria. 1998–1999. [Geometry Seminars. 1998–1999] **2001d:00049**
Conference:
Real and Complex Analytic Geometry ★ Seminari di Geometria. 1998–1999. [Geometry Seminars. 1998–1999] **2001d:00049**
Dedicated to William Fulton on the occasion of his 60th birthday ★ {Dedicated to William Fulton on the occasion of his 60th birthday}. **2001d:00057**
Festschrift:
Fulton, William ★ {Dedicated to William Fulton on the occasion of his 60th birthday}. **2001d:00057**
Iskovskikh, Vasilii Alekseevich ★ Algebraic geometry. 10. **2001e:00027**
Seminar:
Geometry ★ Seminari di Geometria. 1998–1999. [Geometry Seminars. 1998–1999] **2001d:00049**
Surveys in differential geometry: differential geometry inspired by string theory ★ Surveys in differential geometry: differential geometry inspired by string theory. **2001d:00024**

14Axx Foundations

14A05 Relevant commutative algebra [see also 13–XX]

Nison, L. Algèbres rationnelles et variétés algébriques sur un corps commutatif quelconque. [Rational algebras and algebraic varieties over an arbitrary commutative field] **2001a:14002**

Items with secondary classifications in 14A05

Sendra, J. Rafael (*with* Sendra, Juana) Algebraic analysis of offsets to hypersurfaces. (English summary) **2001f:14103**
Sendra, Juana *see* **Sendra, J. Rafael, 2001f:14103**

14A10 Varieties and morphisms

Items with secondary classifications in 14A10

Nison, L. Algèbres rationnelles et variétés algébriques sur un corps commutatif quelconque. [Rational algebras and algebraic varieties over an arbitrary commutative field] **2001a:14002**
Pankov, M. A. Irregular subsets of the Grassmannian manifolds and their maps. (English, Russian and Ukrainian summaries) **2001i:14065**

14A15 Schemes and morphisms

Eisenbud, David (*with* Harris, Joseph Daniel) ★ The geometry of schemes. (English summary) **2001d:14002**
Harris, Joseph Daniel *see* **Eisenbud, David, 2001d:14002**
Peng, Guo-hua An equivalent condition for morphisms being locally of finite type. (English and Chinese summaries)

Items with secondary classifications in 14A15

(Arbarello, Enrico) *see* **Mumford, David, 2001b:14001**
Galligo, André (*with* Kwieciński, Michał) Flatness and fibred powers over smooth varieties. (English summary) **2001i:14006**
Huang, I-Chiau An explicit construction of residual complexes. (English summary) **2001c:14037**
(Kato, Goro) *see* **Ueno, Kenji, 2001j:14001**
Kwieciński, Michał *see* **Galligo, André, 2001i:14006**
Li, Huishi Structure sheaves on almost commutative algebras. **2001g:16056**
Mumford, David ★ The red book of varieties and schemes. (English summary) **2001b:14001**
Sancho de Salas, Fernando (*with* Sancho de Salas, Pedro J.) Desingularization and integrality of the automorphism scheme of a finite field extension. (English summary) **2001h:14056**
Sancho de Salas, Pedro J. *see* **Sancho de Salas, Fernando, 2001h:14056**
Ueno, Kenji ★ Algebraic geometry. 2. (English summary) **2001j:14001**

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Lecture Notes in Mathematics *see* **Mumford, David, 2001b:14001**

14A20 Generalizations (algebraic spaces, stacks)

Kresch, Andrew Cycle groups for Artin stacks. **2001a:14003**
Laumon, Gérard (*with* Moret-Bailly, Laurent) ★ Champs algébriques. (French) [Algebraic stacks] **2001f:14006**
Loeser, François Solutions exactes et solutions approchées d'équations polynomiales. [Exact and approximate solutions of polynomial equations] **2001j:14004**
Moret-Bailly, Laurent *see* **Laumon, Gérard, 2001f:14006**

Items with secondary classifications in 14A20

Jarvis, Tyler J. Compactification of the universal Picard over the moduli of stable curves. (English summary) **2001m:14040**
Toen, B. On motives for Deligne-Mumford stacks. **2001h:14019**

14A22 Noncommutative algebraic geometry

Chan, Daniel Sai-Ping Twisted multi-homogeneous coordinate rings. (English summary) **2001f:14007**
Jørgensen, Peter Intersection theory on non-commutative surfaces. (English summary) **2001b:14005**
Keeler, Dennis S. Criteria for σ-ampleness. **2001d:14003**
Kontsevich, Maxim (*with* Rosenberg, Alexander L.) Noncommutative smooth spaces. **2001c:14005**
Le Bruyn, Lieven Noncommutative compact manifolds constructed from quivers. (English summary) **2001m:14004**
Rosenberg, Alexander L. *see* **Kontsevich, Maxim, 2001c:14005**
Van Oystaeyen, Freddy A deformation of projective schemes. **2001j:14005**

Items with secondary classifications in 14A22

Ajitabh, Kaushal Residue complex for Sklyanin algebras of dimension three. (English summary) **2001a:16045**
Felgin, B. L. (*with* Odesskiĭ, A. V.) Vector bundles on an elliptic curve and Sklyanin algebras. **2001f:14063**
Krause, Henning The spectrum of a module category. (English summary) **2001k:16010**
Mori, I. (*with* Smith, S. Paul) Bézout's theorem for non-commutative projective spaces. (English summary) **2001m:16075**
Odesskiĭ, A. V. *see* **Felgin, B. L., 2001f:14063**
Smith, S. Paul (*with* Zhang, James J.) Curves on quasi-schemes. (English summary) **2001a:16046**
— *see also* **Mori, I., 2001m:16075**
Vancliff, Michaela (*with* Van Rompay, Kristel) Four-dimensional regular algebras with point scheme, a nonsingular quadric in $\mathbf{P}^3$. (English summary) **2001g:16057**
Van Rompay, Kristel *see* **Vancliff, Michaela, 2001g:16057**
Zhang, James J. *see* **Smith, S. Paul, 2001a:16046**

14A99 None of the above, but in this section

Berzins, A. (*with* Plotkin, B. I.; Plotkin, E. B.) Algebraic geometry in varieties of algebras with the given algebra of constants. **2001h:14001**
Myasnikov, A. G.^{2} (*with* Remeslennikov, Vladimir) Algebraic geometry over groups. II. Logical foundations. (English summary) **2001i:14001**
Plotkin, B. I. *see* **Berzins, A. et al., 2001h:14001**
Plotkin, E. B. *see* **Berzins, A. et al., 2001h:14001**
Remeslennikov, Vladimir *see* **Myasnikov, A. G.^{2}, 2001i:14001**

Items with secondary classifications in 14A99

Becker, Thomas General algebraic geometry and formal concept analysis. **2001c:06005**
Bouwknegt, Peter q-identities and affinized projective varieties. I. Quadratic monomial ideals. (English summary) **2001i:13018**
Laksov, Dan (*with* Pitteloud, Y.; Skjelnes, Roy Mikael) Notes on flatness and the Quot functor on rings. (English summary) **2001i:13009**
Nikolova, D. B. (*with* Plotkin, B. I.) Some notes on universal algebraic geometry. (English summary) **2001d:08003**
Pitteloud, Y. *see* **Laksov, Dan et al., 2001i:13009**
Plotkin, B. I. *see* **Nikolova, D. B., 2001d:08003**
Pong, Wai Yan Complete sets in differentially closed fields. **2001c:12009**
Skjelnes, Roy Mikael *see* **Laksov, Dan et al., 2001i:13009**
Wang, Ren Hong Multivariate spline and algebraic geometry. (English summary) (*see* **2001c:41001**)

14Bxx Local theory

Roy, Marie-Françoise Géométrie algébrique réelle. (French summary) [Real algebraic geometry] **2001i:14002**

14B05 Singularities [see also 14E15, 14H20, 14J17, 32Sxx, 58Kxx]

Altmann, Klaus One parameter families containing three-dimensional toric-Gorenstein singularities. **2001j:14006**
Bau, Chunsheng (*with* McEwan, Lee J.) Canonical resolution of a quasi-ordinary surface singularity. (English summary) **2001i:14003**
Beauville, Arnaud Symplectic singularities. **2001f:14008**
Chen, Hao[1] (*with* Seeley, Craig; Yau, Stephen S.-T.) Algebraic determination of isomorphism classes of the moduli algebras of $\widetilde{E}_6$ singularities. **2001j:14007**
Crawley-Boevey, William On the exceptional fibres of Kleinian singularities. (English summary) **2001f:14009**
Dais, Dimitrios I. (*with* Haus, Utz-Uwe; Henk, Martin) On crepant resolutions of 2-parameter series of Gorenstein cyclic quotient singularities. (English summary) **2001c:14006**
Fukui, Toshizumi Introduction to toric modifications with an application to real singularities. (*see* **2001c:14004**)
Haus, Utz-Uwe *see* **Dais, Dimitrios I. et al., 2001c:14006**
Henk, Martin *see* **Dais, Dimitrios I. et al., 2001c:14006**
Ishii, Shihoko The index of a log-canonical singularity. (English summary) (*see* **2001c:14004**)
Izumi, Shuzo Orders of functions at singularities. (Japanese. Japanese summary) (*see* **2001c:14004**)
McEwan, Lee J. *see* **Bau, Chunsheng, 2001i:14003**
Mori, Shigefumi On a hyperplane section theorem of Gurjar. (English summary) **2001m:14005**
Müller, Gerd Resolution of weighted homogeneous surface singularities. **2001g:14002**
Nakamura, Yayoi *see* **Tajima, Shin-ichi, (2001h:00018)**
Nobile, Augusto (*with* Villamayor U., Orlando E.) Arithmetic families of smooth surfaces and equisingularity of embedded schemes. (English summary) **2001b:14006**
Seeley, Craig *see* **Chen, Hao[1] et al., 2001j:14007**
Tajima, Shin-ichi (*with* Nakamura, Yayoi) Calculation of dual bases related to standard types of pseudo-homogeneous isolated singularities. (Japanese. Japanese summary) (*see* **2001h:00018**)
Terasoma, Tomohide Convolution theorem for non-degenerate maps and composite singularities. **2001a:14004**
Villamayor U., Orlando E. *see* **Nobile, Augusto, 2001b:14006**
Yau, Stephen S.-T. *see* **Chen, Hao[1] et al., 2001j:14007**

Items with secondary classifications in 14B05

Abramovich, Dan (*with* Oort, Frans) Alterations and resolution of singularities. **2001h:14009**
Altmann, Klaus Singularities arising from lattice polytopes. (English summary) **2001f:14022**
Ambro, Florin On minimal log discrepancies. (English summary) **2001c:14031**
Aroca Hernández-Ros, José Manuel Puiseux solutions of singular differential equations. **2001g:34132**
Ballico, Edoardo On torsion free sheaves on singular projective curves. (English and Italian summaries) **2001f:14031**
Bau, Chunsheng (*with* McEwan, Lee J.) Simultaneous resolution of equisingular quasi-ordinary singularities. (English summary) **2001m:14024**
Batyrev, Victor V. Stringy Hodge numbers of varieties with Gorenstein canonical singularities. (English summary) **2001a:14039**
Bodnár, Gábor (*with* Schicho, Josef) Automated resolution of singularities for hypersurfaces. (English summary) **2001i:14083**
Casas Alvero, E. Filtrations by complete ideals and applications. (English summary) **2001c:13010**
Goldin, Rebecca (*with* Teissier, Bernard) Resolving singularities of plane analytic branches with one toric morphism. (English summary) **2001i:32042**
Gomi, Yasushi (*with* Nakamura, Iku; Shinoda, Ken-ichi) Hilbert schemes of G-orbits in dimension three. (English summary) **2001m:14008**
González Pérez, P. D. Singularités quasi-ordinaires toriques et polyèdre de Newton du discriminant. (French summary) [Toric quasiordinary singularities and Newton polyhedron of the discriminant] **2001h:14065**
Goryunov, V. V. Unitary reflection groups associated with singularities of functions with cyclic symmetry. (Russian) **2001b:32055**
Greene, Brian R. (*with* Lazaroiu, C. I.; Raugas, Mark) D-branes on non-abelian threefold quotient singularities. (English summary) **2001a:81191**
Hara, Nobuo Geometric interpretation of tight closure and test ideals. (English summary) **2001m:13009**
Hyry, Eero Blow-up rings and rational singularities. (English summary) **2001d:13002**
Iano-Fletcher, A. R. Working with weighted complete intersections. **2001k:14089**
Jiang, Guangfeng Conormal modules via primitive ideals. (English summary) **2001g:13025**
de Jong, Theo (*with* van Straten, Duco) Projective resolutions associated to projections. (English summary) **2001h:13019**
Joyce, Dominic D. Deforming Calabi-Yau orbifolds. **2001i:14004**
Kanesaka, Naohiro (*with* Watanabe, Kimio) On plurigenera of hypersurface purely elliptic singularities. (English summary) **2001b:32056**
Kovács, Sándor J. Rational, log canonical, Du Bois singularities: on the conjectures of Kollár and Steenbrink. (English summary) **2001g:14022**
— Rational, log canonical, Du Bois singularities. II. Kodaira vanishing and small deformations. (English summary) **2001m:14028**
— *see also* **Némethi, András, 2001g:32066**
Kuwata, Takayasu On log canonical thresholds of reducible plane curves. (English summary) **2001g:14047**
Lakshmibai, V. On tangent spaces to Schubert varieties. (English summary) **2001f:14093**
Lazaroiu, C. I. *see* **Greene, Brian R. et al., 2001a:81191**
Lê Dũng Tráng Les singularités sandwich. [Sandwiched singularities] **2001i:14022**
Lejeune-Jalabert, Monique (*with* Reguera, Ana José) Arcs and wedges on sandwiched surface singularities. (English summary) **2001b:14061**
McEwan, Lee J. *see* **Bau, Chunsheng, 2001m:14024**
Mohri, Kenji Kähler moduli space for a D-brane at orbifold singularities. (English summary) **2001b:14020**
Nakamura, Iku *see* **Gomi, Yasushi et al., 2001m:14008**
Némethi, András Five lectures on normal surface singularities. **2001g:32066**
Neuerburg, Kent M. Characteristic pairs along the resolution sequence. (English summary) **2001k:14035**
O'Carroll, Liam (*with* Popescu, Dorin) On a theorem of Knörrer concerning Cohen-Macaulay modules. (English summary) **2001g:13020**
Oort, Frans *see* **Abramovich, Dan, 2001h:14009**
Płoski, Arkadiusz Milnor number of a plane curve and Newton polygons. (English summary) **2001b:32053**
Popescu, Dorin *see* **O'Carroll, Liam, 2001g:13020**
Prokhorov, Yu. G. Blow-ups of canonical singularities. **2001d:14020**
Raugas, Mark *see* **Greene, Brian R. et al., 2001a:81191**
Ray, Koushik Candidates for anti-de Sitter-horizons. (English summary) **2001b:81122**
Reguera, Ana José *see* **Lejeune-Jalabert, Monique, 2001b:14061**
Sarkar, Tapobrata D-brane gauge theories from toric singularities of the form $\mathbf{C}^3/\Gamma$ and $\mathbf{C}^4/\Gamma$. (English summary) **2001m:81248**
Schicho, Josef *see* **Bodnár, Gábor, 2001i:14083**
Shinoda, Ken-ichi *see* **Gomi, Yasushi et al., 2001m:14008**
van Straten, Duco *see* **de Jong, Theo, 2001h:13019**
(Szilárd, Ágnes) *see* **Némethi, András, 2001g:32066**
Teissier, Bernard *see* **Goldin, Rebecca, 2001i:32042**
Tomaru, Tadashi On Kodaira singularities defined by $z^n = f(x, y)$. **2001m:32064**
Waldi, Rolf On the equivalence of plane curve singularities. **2001i:14038**
Watanabe, Kimio *see* **Kanesaka, Naohiro, 2001b:32056**
Zwara, Grzegorz Immersions of module varieties. (English summary) **2001b:16011**

14B07 Deformations of singularities [see also 14D15, 32S30]

Joyce, Dominic D. Deforming Calabi-Yau orbifolds. **2001i:14004**

Items with secondary classifications in 14B07

Ahn, Changhyun (*with* Kim, Ho Il) Branes at $\mathbf{C}^4/\Gamma$ singularity from toric geometry. (English summary) **2001e:81093**
Goldin, Rebecca (*with* Teissier, Bernard) Resolving singularities of plane analytic branches with one toric morphism. (English summary) **2001i:32042**
Huibregtse, Mark E. Some amplifications and a correction of Iarrobino's construction of local parameters on $\mathrm{Hilb}^n_{\mathbf{P}^2}$. (English summary) **2001c:14008**
Jaworski, Piotr On the uniqueness of the quasihomogeneity. (English summary) **2001e:32041**
Kim, Ho Il *see* **Ahn, Changhyun, 2001e:81093**
Matsumoto, Makoto A presentation of mapping class groups in terms of Artin groups and geometric monodromy of singularities. (English summary) **2001e:57002**
Teissier, Bernard *see* **Goldin, Rebecca, 2001i:32042**

14B12 Local deformation theory, Artin approximation, etc. [see also 13B40, 13D10]

Ishii, Akira Versal deformation of reflexive modules over rational double points. **2001i:14005**

Items with secondary classifications in 14B12

Grinberg, Mikhail (*with* Kazhdan, David A.) Versal deformations of formal arcs. **2001h:14005**
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14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

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14C17 Intersection theory, characteristic classes, intersection multiplicities [see also 13H15]

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14C30 Transcendental methods, Hodge theory [see also 14D07, 32G20, 32J25, 32S35], Hodge conjecture

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14C34 Torelli problem [see also 32G20]

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14C35 Applications of methods of algebraic K-theory [see also 19Exx]

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14C40 Riemann-Roch theorems [see also 19E20, 19L10]

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14C99 None of the above, but in this section

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14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, monodromy, etc.)

Cukierman, Fernando Monodromy of projections. **2001b:14018**
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14D06 Fibrations, degenerations

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14D07 Variation of Hodge structures [see also 32G20]

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— On the compact variations of Hodge structure. **2001i:14017**

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14D10 Arithmetic ground fields (finite, local, global)

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14D15 Formal methods; deformations [see also 13D10, 14B07, 32Gxx]

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Bottacin, Francesco A generalization of Higgs bundles to higher dimensional varieties. (English summary) **2001a:14012**
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Foth, Philip Moduli spaces of polygons and punctured Riemann spheres. (English summary) **2001e:14012**
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14D21 Applications of vector bundles and moduli spaces in mathematical physics (twistor theory, instantons, quantum field theory)

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Mohri, Kenji Kähler moduli space for a D-brane at orbifold singularities. (English summary) **2001b:14020**
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14D22 Fine and coarse moduli spaces

Brückmann, Peter A remark on moduli spaces of 4-dimensional complete intersections. (English summary) **2001m:14020**
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14Exx Birational geometry

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14E05 Rational and birational maps

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Dussaud, René Invariants birationnels. (French summary) [Birational invariants] (*see* **2001c:00012**)
Grinenko, Mikhail Birational properties of pencils of del Pezzo surfaces of degrees 1 and 2. (Russian. Russian summary) **2001g:14016**
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Chel'tsov, I. A. Log models of birationally rigid varieties. (English summary) **2001k:14040**
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De Volder, Cindy ★ Very ampleness and Gauss maps of linear systems on blowings-up of projective varieties. (Dutch summary) **2001k:14038**
Dussaud, René Transformations birationnelles conjuguées. [Conjugate birational transformations] **2001d:12007**
Karaś, Marek Birational finite extensions. (English summary) **2001b:14092**
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14E07 Birational automorphisms, Cremona group and generalizations

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Fujino, Osamu Abundance theorem for semi log canonical threefolds. **2001c:14032**
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14E08 Rationality questions

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— *see also* **Corti, Alessio et al., 2001k:14034**
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14E15 Global theory and resolution of singularities [see also 14B05, 32S20, 32S45]

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14E20 Coverings [see also 14H30]

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Dèbes, Pierre Some arithmetic properties of algebraic covers. (English summary) **2001b:14027**
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Domrina, A. V. Four sheeted polynomial mappings of $\mathbf{C}^2$. II. The general case. (Russian. Russian summary) **2001c:14092**
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14E22 Ramification problems [see also 11S15]

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14E25 Embeddings

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Coppens, Marc (*with* De Volder, Cindy) Blowings-up of varieties and injectivity of Gauss maps. (English summary) **2001i:14011**
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14E30 Minimal model program (Mori theory, extremal rays)

Ambro, Florin On minimal log discrepancies. (English summary) **2001c:14031**
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14Fxx (Co)homology theory [see also 13Dxx]

14F05 Vector bundles, sheaves, related constructions [see also 14H60, 14J60, 18F20, 32Lxx, 46M20]

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14F10 Differentials and other special sheaves [see also 13Nxx, 32C38]

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14F17 Vanishing theorems [see also 32L20]

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14F20 Étale and other Grothendieck topologies and cohomologies

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Tsalidis, Stavros On the étale descent problem for topological cyclic homology and algebraic K-theory. (English summary) **2001m:19005**
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Ford, T. J. The Brauer group of an affine cone. (English summary) **2001k:14044**
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— (*with* Yanchevskiĭ, Vyacheslav I.) Torsion of the Brauer groups of curves defined over multidimensional local fields. (Russian. English and Russian summaries) **2001g:14024**
Kozmirenko, D. V. On the Brauer group for the main open set in the affine space. (English summary)
Krasnov, V. A. On the Picard group and the Brauer group of a real algebraic surface. (Russian. Russian summary) **2001c:14038**
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Lipnitskiĭ, A. A. Two-torsion of Brauer groups of elliptic curves with good one-component reduction over the field of real formal power series. (Russian. English and Russian summaries) **2001g:14026**
— Elliptic curves with bad adaptive reduction over a field of real formal power series, and their Brauer groups. (Russian. English and Russian summaries) **2001g:14028**
Margolin, G. L. *see* **Yanchevskiĭ, Vyacheslav I. et al., 2001i:14026**
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DeMeyer, Frank (*with* McKenzie, Thomas; Schneider, Kim) Strongly etale extensions and weak Henselizations. **2001g:13014**
Goglev, V. V. (*with* Yanchevskiĭ, Vyacheslav I.) Unramified Brauer groups of function fields of local elliptic curves with split multiplicative reduction. (Russian. English and Russian summaries) **2001j:11039**
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14F25 Classical real and complex cohomology

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Earl, Richard (*with* Kirwan, Frances C.) The Hodge numbers of the moduli spaces of vector bundles over a Riemann surface. **2001m:14018**
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Lubicz, David Une description de la cohomologie du complément à un diviseur non réductible de $\mathbf{P}^2$. [Description of the cohomology of the complement of a nonreducible divisor in $\mathbf{P}^2$] **2001k:14046**
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14F30 p-adic cohomology, crystalline cohomology

Chambert-Loir, Antoine Théorie de Dieudonné cristalline et périodes p-adiques. (English and French summaries) [Crystalline Dieudonné theory and p-adic periods] **2001e:14020**
Chiarellotto, Bruno (*with* Le Stum, Bernard) Pentes en cohomologie rigide et F-isocristaux unipotents. (English summary) [Slopes in rigid cohomology and unipotent F-isocrystals] **2001b:14030**
Crew, Richard Canonical extensions, irregularities, and the Swan conductor. **2001c:14039**
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Nakayama, Chikara Degeneration of l-adic weight spectral sequences. (English summary) **2001j:14024**
Tsuzuki, Nobuo On the Gysin isomorphism of rigid cohomology. (English summary) **2001d:14023**
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Berthelot, Pierre $\mathscr{D}$-modules arithmétiques. II. Descente par Frobenius. (English and French summaries) [Arithmetic $\mathscr{D}$-modules. II. Frobenius descent] **2001k:14043**
Breuil, Christophe Groupes p-divisibles, groupes finis et modules filtrés. (French summary) [p-divisible groups, finite groups and filtered modules] **2001k:14087**
Christol, Gilles (*with* Mebkhout, Zoghman) Sur le théorème de l'indice des équations différentielles p-adiques. III. [On the index theorem for p-adic differential equations. III] **2001k:12014**
Colmez, Pierre Représentations cristallines et représentations de hauteur finie. [Crystalline representations and representations of finite height] **2001h:11147**
— (*with* Fontaine, Jean-Marc) Construction des représentations p-adiques semi-stables. [Construction of semistable p-adic representations] **2001g:11184**
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14F40 de Rham cohomology [see also 14C30, 32C35, 32L10]

Chinburg, Ted (*with* Pappas, Georgios; Taylor, Martin J.) ε-constants and the Galois structure of de Rham cohomology. II. **2001a:14016**
Dimca, Alexandru (*with* Maaref, Fayçal; Sabbah, Claude; Saito, Morihiko) Dwork cohomology and algebraic $\mathscr{D}$-modules. (English summary) **2001j:14027**
Lubicz, David Une description de la cohomologie du complément à un diviseur non réductible de $\mathbf{P}^2$. [Description of the cohomology of the complement of a nonreducible divisor in $\mathbf{P}^2$] **2001k:14046**
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Takayama, Nobuki *see* **Oaku, Toshinori**
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Bloch, Spencer J. (*with* Esnault, Hélène) A Riemann-Roch theorem for flat bundles, with values in the algebraic Chern-Simons theory. **2001k:14025**
Breuil, Christophe Intégration sur les variétés p-adiques (d'après Coleman, Colmez). (French summary) [Integration on p-adic manifolds (following Coleman and Colmez)] **2001m:11103**
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Esnault, Hélène *see* **Bloch, Spencer J., 2001k:14025**
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Grosse-Klönne, Elmar Rigid analytic spaces with overconvergent structure sheaf. (English summary) **2001b:14033**
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Tsuzuki, Nobuo On the Gysin isomorphism of rigid cohomology. (English summary) **2001d:14023**
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— On the Lyubeznik numbers of a local ring. (English summary) **2001m:13026**
Yamazaki, Takao Formal Chow groups, p-divisible groups, and syntomic cohomology. **2001h:14023**

14F42 Motivic cohomology

Asakura, Masanori Motives and algebraic de Rham cohomology. (English summary) **2001c:14041**
Corti, Alessio (*with* Hanamura, Masaki) Motivic decomposition and intersection Chow groups. I. **2001f:14039**
Friedlander, Eric M. (*with* Suslin, Andrei A.; Voevodsky, Vladimir) Introduction. (*see* **2001d:14026**)
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Hanamura, Masaki The mixed motive of a projective variety. **2001e:14023**
— Homological and cohomological motives of algebraic varieties. **2001k:14047**
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Kahn, Bruno Motivic cohomology of smooth geometrically cellular varieties. (English summary) **2001b:14031**
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Karpenko, Nikita A. Criteria of motivic equivalence for quadratic forms and central simple algebras. (English summary) **2001j:14028**
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Saito, Shuji[1] Motives and filtrations on Chow groups. II. **2001d:14025**
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Toen, B. On motives for Deligne-Mumford stacks. **2001h:14019**
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— (*with* Suslin, Andrei A.; Friedlander, Eric M.) ★ Cycles, transfers, and motivic homology theories. **2001d:14026**
— Triangulated categories of motives over a field. (*see* **2001d:14026**)
— *see also* **Suslin, Andrei A., 2001g:14031** *and* **Friedlander, Eric M. et al., (2001d:14026)**
Weibel, Charles Products in higher Chow groups and motivic cohomology. (English summary) **2001a:14017**
Zhao, Jianqiang Remarks on a Hopf algebra for defining motivic cohomology. **2001d:14027**

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Friedlander, Eric M. (*with* Walker, Mark E.) Function spaces and continuous algebraic pairings for varieties. (English summary) **2001m:14033**
Gangl, Herbert Some computations in weight 4 motivic complexes. (English summary) **2001h:11084**
Geisser, Thomas Applications of de Jong's theorem on alterations. **2001f:14027**
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Langer, Andreas Finiteness of torsion in the codimension-two Chow group: an axiomatic approach. (English summary) **2001g:14003**
Levine, Marc Techniques of localization in the theory of algebraic cycles. (English summary) **2001m:14014**
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Otsubo, Noriyuki Note on conjectures of Beilinson-Bloch-Kato for cycle classes. (English summary) **2001d:11071**
Peyre, Emmanuel Application of motivic complexes to negligible classes. (English summary) **2001g:14023**
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Sato, Kanetomo Abel-Jacobi mappings and finiteness of motivic cohomology groups. **2001f:11098**
Scholl, Anthony J. Integral elements in K-theory and products of modular curves. (English summary) **2001i:11077**
Srinivas, Vasudevan *see* **Biswas, J., 2001b:14016**
Walker, Mark E. Weight zero motivic cohomology and the general linear group of a simplicial ring. (English summary) **2001b:19003**
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Jannsen, Uwe–Gross, Benedict H. *see* **Jannsen, Uwe, 2001e:14019**

14F43 Other algebro-geometric (co)homologies (e.g., intersection, equivariant, Lawson, Deligne (co)homologies)

Adolphson, Alan Higher solutions of hypergeometric systems and Dwork cohomology. (English summary) **2001b:14032**
— (*with* Sperber, Steven) Dwork cohomology, de Rham cohomology, and hypergeometric functions. (English summary) **2001g:14032**
Barthel, Gottfried (*with* Brasselet, Jean-Paul; Fieseler, Karl-Heinz; Kaup, Ludger) Equivariant intersection cohomology of toric varieties. (English summary) **2001i:14030**
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— *see also* **Barthel, Gottfried et al., 2001i:14030**
Finkelberg, M. V. (*with* Kuznetsov, Aleksandr Gennad'evich; Mirković, Ivan) The singular supports of IC sheaves on spaces of quasimaps are irreducible. **2001f:14041**
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— *see also* **Feigin, B. L. et al., 2001j:14030**
Friedlander, Eric M. (*with* Voevodsky, Vladimir) Bivariant cycle cohomology. (*see* **2001d:14026**)
— (*with* Walker, Mark E.) Function spaces and continuous algebraic pairings for varieties. (English summary) **2001m:14033**
Gajer, Paweł Deligne cohomology and the geometric (co-)bar constructions. **2001c:14043**
— Geometry of higher connections. (English summary) **2001g:14033**
Gomi, Kiyonori (*with* Terashima, Yuji) A fiber integration formula for the smooth Deligne cohomology. **2001g:14034**
Grinberg, Mikhail On the specialization to the asymptotic cone. **2001m:14034**
Hain, Richard *see* **Dupont, Johan L. et al., 2001c:14042**
Kaup, Ludger *see* **Barthel, Gottfried et al., 2001i:14030**
Kuznetsov, Aleksandr Gennad'evich *see* **Finkelberg, M. V. et al., 2001f:14041** *and* **Feigin, B. L. et al., 2001j:14030**
Mirković, Ivan (*with* Vilonen, Kari) Perverse sheaves on affine Grassmannians and Langlands duality. **2001h:14020**
— *see also* **Finkelberg, M. V. et al., 2001f:14041; 2001j:14029** *and* **Feigin, B. L. et al., 2001j:14030**
Peters, Chris A. M. Lawson homology for varieties with small Chow groups and the induced filtration on the Griffiths groups. **2001f:14042**
Sperber, Steven *see* **Adolphson, Alan, 2001g:14032**
Terashima, Yuji *see* **Gomi, Kiyonori, 2001g:14034**
Vilonen, Kari *see* **Mirković, Ivan, 2001h:14020**
Voevodsky, Vladimir *see* **Friedlander, Eric M., (2001d:14026)**
Walker, Mark E. *see* **Friedlander, Eric M., 2001m:14033**
Zucker, Steven M. *see* **Dupont, Johan L. et al., 2001c:14042**

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Birbrair, Lev (*with* Brasselet, Jean-Paul) Metric homology. (English summary) **2001h:14075**
Bloch, Spencer J. (*with* Esnault, Hélène) Lectures on algebro-geometric Chern-Weil and Cheeger-Chern-Simons theory for vector bundles. (English summary) **2001c:14020**
— (*with* Esnault, Hélène) A Riemann-Roch theorem for flat bundles, with values in the algebraic Chern-Simons theory. **2001k:14025**
Brasselet, Jean-Paul *see* **Birbrair, Lev, 2001h:14075**
Carey, Alan L. (*with* Mickelsson, Jouko; Murray, Michael K.) Bundle gerbes applied to quantum field theory. (English summary) **2001g:53132**
Dwork, Bernard M. Cohomology of singular hypersurfaces. **2001k:11115**
Esnault, Hélène (*with* Levine, Marc) The Steinberg curve. (English summary) **2001k:14020**
— *see also* **Bloch, Spencer J., 2001c:14020** *and* **2001k:14025**
Geisser, Thomas (*with* Hesselholt, Lars) Topological cyclic homology of schemes. **2001g:19003**

Gordon, B. Brent (*with* Lewis, James D.) Indecomposable higher Chow cycles. (English summary) **2001c:14018**
Hesselholt, Lars *see* **Geisser, Thomas, 2001g:19003**
Kalkkinen, Jussi Gerbes and massive type II configurations. (English summary) **2001f:81150**
Levine, Marc *see* **Esnault, Hélène, 2001k:14020**
Lewis, James D. *see* **Gordon, B. Brent, 2001c:14018**
Lima-Filho, Paulo Algebraic families of E_∞-spectra. (English summary) **2001g:55005**
Mickelsson, Jouko *see* **Carey, Alan L. et al., 2001g:53132**
Murray, Michael K. *see* **Carey, Alan L. et al., 2001g:53132**
Pedrini, Claudio Bloch's conjecture and the K-theory of projective surfaces. (English summary) **2001c:14009**
Soergel, Wolfgang On the relation between intersection cohomology and representation theory in positive characteristic. (English summary) **2001k:20098**

14F45 Topological properties

Items with secondary classifications in 14F45

Artal-Bartolo, Enrique (*with* Luengo, Ignacio; Melle-Hernández, Alejandro) Milnor number at infinity, topology and Newton boundary of a polynomial function. (English summary) **2001g:32070**
Luengo, Ignacio *see* **Artal-Bartolo, Enrique et al., 2001g:32070**
Melle-Hernández, Alejandro *see* **Artal-Bartolo, Enrique et al., 2001g:32070**
Takayama, Shigeharu Simple connectedness of weak Fano varieties. **2001d:14042**
Xia, Eugene Z. The moduli of flat PGL(2, **R**) connections on Riemann surfaces. (English summary) **2001a:14013**

14F99 None of the above, but in this section

Items with secondary classifications in 14F99

Jacobs, Philippe A sheaf homology theory with supports. (English summary) **2001j:11113**
Kimura, Shun-Ichi A cohomological characterization of Alexander schemes. (English summary) **2001c:14011**
Libgober, Anatoly (*with* Yuzvinsky, Sergey) Cohomology of the Orlik-Solomon algebras and local systems. (English summary) **2001j:52032**
Yuzvinsky, Sergey *see* **Libgober, Anatoly, 2001j:52032**

14Gxx Arithmetic problems. Diophantine geometry [see also 11Dxx, 11Gxx]

14G05 Rational points

Guletskiĭ, V. I. (*with* Yanchevskiĭ, Vyacheslav I.) Number points on real manifolds. (Russian. English and Russian summaries) **2001f:14043**
Kawaguchi, Shu Some remarks on rational periodic points. (English summary) **2001g:14035**
Kihara, Shoichi On an elliptic curve over $\mathbf{Q}(t)$ of rank ≥ 9 with a non-trivial 2-torsion point. (English summary)
Lachaud, Gilles (*with* Perret, Marc) Un invariant birationnel des variétés de dimension 3 sur un corps fini. (English and French summaries) [A birational invariant of 3-folds over a finite field] **2001g:14036**
McKinnon, David Counting rational points on $K3$ surfaces. (English summary) **2001j:14031**
Perret, Marc *see* **Lachaud, Gilles, 2001g:14036**
Siciliano, Alessandro A note on rational points of curves over finite fields. **2001a:14019**
Swinnerton-Dyer, H. P. F. Rational points on some pencils of conics with 6 singular fibres. (English and French summaries) **2001c:14044**
Yanchevskiĭ, Vyacheslav I. *see* **Guletskiĭ, V. I., 2001f:14043**

Items with secondary classifications in 14G05

Aguglia, A. (*with* Korchmáros, G.) On algebraic curves over a finite field with many rational points. (English summary) **2001i:11072**
Baker, Matthew H. Cartier points on curves. **2001g:11096**
Bilu, Yuri F. (*with* Tichy, Robert F.) The Diophantine equation $f(x) = g(y)$. **2001i:11031**
Chambert-Loir, Antoine (*with* Tschinkel, Yuri) Points of bounded height on equivariant compactifications of vector groups. I. (English summary) **2001j:11053**
— (*with* Tschinkel, Yuri) Points of bounded height on equivariant compactifications of vector groups. II. (English summary) **2001k:11118**
Chernousov, Vladimir (*with* Timoshenko, L. M.) On the group of R-equivalence classes of semisimple groups over arithmetic fields. (Russian. Russian summary) **2001f:20100**
Cornelissen, Gunther (*with* Zahidi, Karim) Topology of Diophantine sets: remarks on Mazur's conjectures. (English summary) **2001m:11217**
Cremona, John E. (*with* Mazur, Barry C.) Visualizing elements in the Shafarevich-Tate group. (English summary) **2001g:11083**
Flynn, E. Victor (*with* Wetherell, Joseph L.) Finding rational points on bielliptic genus 2 curves. (English summary) **2001g:11098**
van Frankenhuysen, Machiel The ABC conjecture implies Roth's theorem and Mordell's conjecture. (English summary) **2001i:11087**
Hooley, Christopher On the rational points on cubic surfaces. (English summary) **2001e:11072**
Korchmáros, G. *see* **Aguglia, A., 2001i:11072**
Luo, Wenzhi Rational points on complete intersections over $\mathbf{F}_p$. **2001h:11079**
Martín Mollevi, Sebastia (*with* Morillo, P.; Villar Santos, Jorge Luis) Computing the order of points on an elliptic curve modulo N is as difficult as factoring N. (English summary) **2001m:11219**
Mazur, Barry C. *see* **Cremona, John E., 2001g:11083**
Morillo, P. *see* **Martín Mollevi, Sebastia et al., 2001m:11219**
Peyre, Emmanuel (*with* Tschinkel, Yuri) Tamagawa numbers of diagonal cubic surfaces, numerical evidence. (English summary) **2001f:11100**
Rémond, Gaël Inégalité de Vojta en dimension supérieure. (English summary) [Vojta inequality in higher dimension] **2001g:11123**
— Inégalité de Vojta en dimension supérieure. (English and French summaries) [Higher-dimensional Vojta inequality] **2001i:11070**
Rodier, F. Nombre de points des surfaces de Deligne et Lusztig. (English and French summaries) [Number of points of Deligne-Lusztig surfaces] **2001g:14080**
Sall, Oumar Points algébriques de petit degré sur les courbes de Fermat. (English and French summaries) [Algebraic points of small degree on Fermat curves] **2001a:11104**
Silverman, Joseph H. On the distribution of integer points on curves of genus zero. (English summary) **2001h:11080**
Strauch, Matthias (*with* Tschinkel, Yuri) Height zeta functions of toric bundles over flag varieties. **2001h:14028**
Tichy, Robert F. *see* **Bilu, Yuri F., 2001i:11031**
Timoshenko, L. M. *see* **Chernousov, Vladimir, 2001f:20100**
Tschinkel, Yuri *see* **Peyre, Emmanuel, 2001f:11100; Strauch, Matthias, 2001h:14028; Chambert-Loir, Antoine, 2001j:11053** *and* **2001k:11118**
Tzermias, Pavlos Explicit rational functions on Fermat curves and a theorem of Greenberg. (English summary) **2001g:11099**
Villar Santos, Jorge Luis *see* **Martín Mollevi, Sebastia et al., 2001m:11219**
Voloch, José Felipe Jacobians of curves over finite fields. **2001h:14021**
Wetherell, Joseph L. *see* **Flynn, E. Victor, 2001g:11098**
Zahidi, Karim *see* **Cornelissen, Gunther, 2001m:11217**

14G10 Zeta-functions and related questions [see also 11G40] (Birch-Swinnerton-Dyer conjecture)

Trihan, Fabien Fonction zêta sur des variétés ouvertes. (English and French summaries) [Zeta function on open varieties] **2001j:14032**
Wan, Daqing Partial zeta functions of algebraic varieties over finite fields. (English summary) **2001m:14035**

Items with secondary classifications in 14G10

Bloch, Spencer J. ★ Higher regulators, algebraic K-theory, and zeta functions of elliptic curves. (English summary) **2001i:11082**
Castro, Francis N. (*with* Moreno, Carlos Julio) L-functions of singular curves over finite fields. (English summary) **2001i:14031**
Christol, Gilles (*with* Mebkhout, Zoghman) p-adic differential equations. (English summary) **2001b:12014**
Kimura, Kenichiro A remark on the Griffiths groups of certain product varieties. **2001f:14017**
Lauter, Kristin Zeta functions of curves over finite fields with many rational points. (English summary) **2001j:11046**
— Geometric methods for improving the upper bounds on the number of rational points on algebraic curves over finite fields. (English summary) **2001j:11047**
Mebkhout, Zoghman *see* **Christol, Gilles, 2001b:12014**
Moreno, Carlos Julio *see* **Castro, Francis N., 2001i:14031**
Ramakrishnan, Dinakar Modularity of the Rankin-Selberg L-series, and multiplicity one for SL(2). **2001g:11077**
— Correction: "Modularity of the Rankin-Selberg L-series, and multiplicity one for SL(2)" [Ann. of Math. (2) **152** (2000), no. 1, 45–111; MR 2000g:11077].
Reimann, Harry On the zeta function of quaternionic Shimura varieties. **2001d:11064**
(Serre, Jean-Pierre) *see* **Lauter, Kristin, 2001j:11047**
Shim, Kyung Ah (*with* Woo, Sung Sik) p-adic heights. (English summary) **2001h:11082**
Silverman, Joseph H. A bound for the Mordell-Weil rank of an elliptic surface after a cyclic base extension. (English summary) **2001a:11107**
Verrill, Helena Arithmetic of a certain Calabi-Yau threefold. (English summary) **2001b:11061**
Wan, Daqing A quick introduction to Dwork's conjecture. (English summary) **2001j:11051**
— Dwork's conjecture on unit root zeta functions. **2001a:11108**
— Poles of zeta functions of complete intersections. (English summary) **2001e:11070**
— Higher rank case of Dwork's conjecture. **2001f:11101a**
— Rank one case of Dwork's conjecture. **2001f:11101b**
Woo, Sung Sik *see* **Shim, Kyung Ah, 2001h:11082**
Wortmann, S. Generalized Q-curves and factors of $J_1(N)$. **2001m:11092**

14G15 Finite ground fields

Carbonne, Philippe (*with* Henocq, Thierry) Décomposition de la jacobienne sur les corps finis. (English summary) [Decomposition of the Jacobian over finite fields]
Castro, Francis N. (*with* Moreno, Carlos Julio) L-functions of singular curves over finite fields. (English summary) **2001i:14031**
Henocq, Thierry *see* **Carbonne, Philippe**
Moreno, Carlos Julio *see* **Castro, Francis N., 2001i:14031**
Voloch, José Felipe Jacobians of curves over finite fields. **2001h:14021**

Items with secondary classifications in 14G15

Abbes, Ahmed The Grothendieck-Ogg-Shafarevich formula for arithmetic surfaces. **2001b:14039**
Ballico, Edoardo (*with* Cossidente, Antonio) Embeddings in Grassmannians. (English summary) **2001i:14023**
Cossidente, Antonio (*with* Hirschfeld, J. W. P.; Korchmáros, G.; Torres, Fernando) On plane maximal curves. (English summary) **2001e:11065**
— *see also* **Ballico, Edoardo, 2001i:14023**
David, Sinnou (*with* Hindry, Marc) Minoration de la hauteur de Néron-Tate sur les variétés abéliennes de type C. M. (English summary) [Lower bound for the Néron-Tate height on abelian varieties of CM type] **2001j:11054**
Denef, Jan (*with* Gyöja, Akihiko) Erratum: "Character sums associated to prehomogeneous vector spaces" [Compositio Math. **113** (1998), no. 3, 273–346; MR 99k:11128].

DiPippo, Stephen A. (*with* Howe, Everett W.) Corrigendum: "Real polynomials with all roots on the unit circle and abelian varieties over finite fields" [J. Number Theory 73 (1998), no. 2, 426–450; MR 2000c:11101]. **Fried, Michael D.** Applications of curves over finite fields. (English summary) **2001c:11066**
Galbraith, Steven D. Constructing isogenies between elliptic curves over finite fields. (English summary) **2001k:11113**
— (*with* McKee, James) The probability that the number of points on an elliptic curve over a finite field is prime. (English summary) **2001m:11099**
van der Geer, Gerard (*with* van der Vlugt, Marcel) Kummer covers with many points. **2001g:11097**
Giulietti, Massimo Algebraic curves over finite fields and MAGMA. (Italian. Italian summary) **2001i:14082**
Gyōja, Akihiko *see* **Denef, Jan**
Hindry, Marc *see* **David, Sinnou, 2001j:11054**
Hirschfeld, J. W. P. *see* **Cossidente, Antonio et al., 2001c:11065**
Howe, Everett W. *see* **DiPippo, Stephen A.**
Katz, Nicholas M. Space filling curves over finite fields. **2001e:11067**
Korchmáros, G. *see* **Cossidente, Antonio et al., 2001c:11065**
Lachaud, Gilles (*with* Perret, Marc) Un invariant birationnel des variétés de dimension 3 sur un corps fini. (English and French summaries) [A birational invariant of 3-folds over a finite field] **2001g:14036**
Lauter, Kristin Zeta functions of curves over finite fields with many rational points. (English summary) **2001j:11046**
— Geometric methods for improving the upper bounds on the number of rational points on algebraic curves over finite fields. (English summary) **2001j:11047**
Luo, Wenzhi Rational points on complete intersections over $\mathbf{F}_p$. **2001h:11079**
McKee, James *see* **Galbraith, Steven D., 2001m:11099**
Perret, Marc *see* **Lachaud, Gilles, 2001g:14036**
Satoh, Takakazu The canonical lift of an ordinary elliptic curve over a finite field and its point counting. (English summary) **2001j:11049**
Schmidt, Alexander (*with* Spieß, Michael) Singular homology and class field theory of varieties over finite fields. **2001m:11108**
Schoen, Chad Cohomology computations related to the l-adic Abel-Jacobi map modulo l. **2001m:14015**
(Serre, Jean-Pierre) *see* **Lauter, Kristin, 2001j:11047**
Shimada, Ichiro Lattices of algebraic cycles on Fermat varieties in positive characteristics. **2001i:14013**
Shokrollahi, M. Amin Counting prime divisors on elliptic curves and multiplication in finite fields. (English summary) **2001g:11086**
Siciliano, Alessandro A note on rational points of curves over finite fields. **2001a:14019**
Spieß, Michael *see* **Schmidt, Alexander, 2001m:11108**
Toki, Keisuke Frobenius indices of certain curves over finite fields. (English summary) **2001d:11066**
Torres, Fernando *see* **Cossidente, Antonio et al., 2001c:11065**
Trihan, Fabien Fonction zêta sur des variétés ouvertes. (English and French summaries) [Zeta function on open varieties] **2001j:14032**
van der Vlugt, Marcel *see* **van der Geer, Gerard, 2001g:11097**
Wan, Daqing Dwork's conjecture on unit root zeta functions. **2001a:11108**
— Higher rank case of Dwork's conjecture. **2001f:11101a**
— Rank one case of Dwork's conjecture. **2001f:11101b**
Zhu, Hui June Supersingular abelian varieties over finite fields. (English summary) **2001m:11104**

14G20 Local ground fields

Berkovich, Vladimir G. An analog of Tate's conjecture over local and finitely generated fields. **2001h:14022**
Besser, Amnon A generalization of Coleman's p-adic integration theory. (English summary) **2001i:14032**
Kisin, Mark Local constancy in families of non-abelian Galois representations. (English summary) **2001e:14024**
Loeser, François Le théorème de Gabber-Lütkebohmert. [The Gabber-Lütkebohmert theorem] **2001f:14044**
Schmechta, Thorsten Mumford-Tate curves. **2001g:14037**
Yamazaki, Takao Formal Chow groups, p-divisible groups, and syntomic cohomology. **2001h:14023**

Items with secondary classifications in 14G20

Bertapelle, Alessandra Formal Néron models and Weil restriction. **2001g:14038**
Berthelot, Pierre $\mathscr{D}$-modules arithmétiques. II. Descente par Frobenius. (English and French summaries) [Arithmetic $\mathscr{D}$-modules. II. Frobenius descent] **2001k:14043**
Breuil, Christophe Intégration sur les variétés p-adiques (d'après Coleman, Colmez). (French summary) [Integration on p-adic manifolds (following Coleman and Colmez)] **2001m:11103**
Christol, Gilles (*with* Mebkhout, Zoghman) Sur le théorème de l'indice des équations différentielles p-adiques. III. [On the index theorem for p-adic differential equations. III] **2001k:12014**
(Coleman, Robert F.) *see* **Breuil, Christophe, 2001m:11103**
(Colmez, Pierre) *see* **Breuil, Christophe, 2001m:11103**
Gillet, Henri (*with* Soulé, Christophe) Direct images in non-Archimedean Arakelov theory. (English and French summaries) **2001j:14036**
Kato, Kazuya Bloch's conductor formula. **2001j:11052**
Kazhdan, David A. An algebraic integration. **2001k:11114**
Koya, Yoshihiro On a duality theorem of abelian varieties over higher dimensional local fields. (English summary) **2001k:11109**
Lichtin, Ben On a question of Igusa: towards a theory of several variable asymptotic expansions. I. (English summary) **2001c:11086**
Lipnitskiĭ, A. A. Two-torsion of Brauer groups of elliptic curves with good one-component reduction over the field of real formal power series. (Russian. English and Russian summaries) **2001g:14026**
— Elliptic curves with bad adaptive reduction over a field of real formal power series, and their Brauer groups. (Russian. English and Russian summaries) **2001g:14028**
Liu, Qing[1] (*with* Saitō, Takeshi) Inequality for conductor and differentials of a curve over a local field. **2001g:14043**
Lorenzini, Dino Reduction of points in the group of components of the Néron model of a Jacobian. **2001i:11073**
Mebkhout, Zoghman *see* **Christol, Gilles, 2001k:12014**
Nguyễn Quốc Thắng Weak approximation, Brauer and R-equivalence in algebraic groups over arithmetical fields. (English summary) **2001i:14025**
Saitō, Takeshi *see* **Liu, Qing[1], 2001g:14043**
Soulé, Christophe *see* **Gillet, Henri, 2001j:14036**
Tikhonov, S. V. (*with* Yanchevskiĭ, Vyacheslav I.) Tri-primary torsion of Brauer groups of local elliptic curves with additive reduction. (Russian. English and Russian summaries) **2001b:11049**
— Brauer groups of elliptic curves defined over the field of complex formal power series. (Russian. English and Russian summaries) **2001g:14027**
Timoshenko, L. M. On the rationality of varieties of semisimple algebraic groups over p-adic fields. (Russian. English and Russian summaries) **2001d:14018**
Van Geel, Jan (*with* Yanchevskiĭ, Vyacheslav I.) Indices of double coverings of genus 1 over p-adic fields. (English and French summaries) **2001e:11068**
Yanchevskiĭ, Vyacheslav I. *see* **Tikhonov, S. V., 2001b:11049** *and* **Van Geel, Jan, 2001e:11068**

14G22 Rigid analytic geometry

Bertapelle, Alessandra Formal Néron models and Weil restriction. **2001g:14038**
Conrad, Brian Irreducible components of rigid spaces. (English and French summaries) **2001c:14045**
Gardener, T. S. Local flattening in rigid analytic geometry. **2001h:14024**
Garuti, Marco A. Géométrie rigide et géométrie formelle. [Rigid geometry and formal geometry] **2001e:14025**
Grosse-Klönne, Elmar Rigid analytic spaces with overconvergent structure sheaf. (English summary) **2001b:14033**
Hartl, Urs T. (*with* Lütkebohmert, Werner) On rigid-analytic Picard varieties. **2001m:14036**
Henrio, Yannick Automorphismes d'ordre p des couronnes p-adiques ouvertes. (English and French summaries) [Order-p automorphisms of p-adic open annuli] **2001b:14034**
— Disques et couronnes ultramétriques. [Ultrametric disks and crowns] **2001f:14045**
Huber, Roland ★ Étale cohomology of rigid analytic varieties and adic spaces. (English summary) **2001c:14046**
Lamjoun, R. Varieties without boundary in rigid analytic geometry. **2001h:14025**
Lütkebohmert, Werner *see* **Hartl, Urs T., 2001m:14036**
Pries, Rachel J. Construction of covers with formal and rigid geometry. **2001e:14026**
Schoutens, Hans Embedded resolution of singularities in rigid analytic geometry. (English and French summaries) **2001b:14035**
Temkin, Mikhail On local properties of non-Archimedean analytic spaces. **2001m:14037**

Items with secondary classifications in 14G22

Berkovich, Vladimir G. An analog of Tate's conjecture over local and finitely generated fields. **2001h:14022**
Breuil, Christophe Intégration sur les variétés p-adiques (d'après Coleman, Colmez). (French summary) [Integration on p-adic manifolds (following Coleman and Colmez)] **2001m:11103**
Chambert-Loir, Antoine La conjecture d'Abhyankar. I. Construction de revêtements en géométrie rigide. [Abhyankar's conjecture. I. Construction of coverings in rigid geometry] **2001j:14033**
Coleman, Robert F. The monodromy pairing. **2001k:14083**
— *see also* **Breuil, Christophe, 2001m:11103**
(Colmez, Pierre) *see* **Breuil, Christophe, 2001m:11103**
Gros, Michel Sur les (K_0, φ, N)-structures attachées aux courbes de Mumford. [(K_0, φ, N)-structures associated with Mumford curves] **2001m:11100**
Ichikawa, Takashi Generalized Tate curve and integral Teichmüller modular forms. (English summary) **2001m:11101**
Lipshitz, Leonard (*with* Robinson, Zachary) Rings of separated power series and quasi-affinoid geometry. (English and French summaries) **2001g:32017**
Robinson, Zachary *see* **Lipshitz, Leonard, 2001g:32017**

14G25 Global ground fields

Abbes, Ahmed Réduction semi-stable des courbes d'après Artin, Deligne, Grothendieck, Mumford, Saito, Winters, ... [Semistable reduction of curves following Artin, Deligne, Grothendieck, Mumford, Saito, Winters, ...] **2001i:14033**
Borovoi, Mikhail The defect of weak approximation for homogeneous spaces. (English and French summaries) **2001b:14036**
Ono, Takashi Shafarevich-Tate set for $y^4 = x^4 - l^2$. **2001i:14034**

Items with secondary classifications in 14G25

Baker, Matthew H. Torsion points on modular curves. (English summary) **2001g:11092**
Boxall, John (*with* Grant, David R.) Examples of torsion points on genus two curves. (English summary) **2001b:11057**
Dwork, Bernard M. Cohomology of singular hypersurfaces. **2001k:11115**
Erez, Boas Galois modules and class field theory. **2001m:11198**
Faltings, Gerd Does there exist an arithmetic Kodaira-Spencer class? (English summary) **2001c:11068**
Grant, David R. *see* **Boxall, John, 2001b:11057**
Gusić, Ivica On isogenies of elliptic curves. (English summary) **2001k:11097**
Harris, Michael Correction to: "p-adic representations arising from descent on abelian varieties" [Compositio Math. **39** (1979), no. 2, 177–245; MR 80j:14035]. **2001b:11050**
Hindry, Marc (*with* Silverman, Joseph H.) ★ Diophantine geometry. (English summary) **2001e:11058**

Kulesz, Leopoldo Jacobiennes de courbes algébriques de genre 2 et 3 de grand rang sur Q. (English summary) [Jacobians of algebraic curves of genus 2 and 3 of high rank over Q] **2001m:11105**
Manoharmayum, J. Abelian surfaces with level $\sqrt{5}$ structure. **2001i:11069**
Otsubo, Noriyuki Selmer groups and zero-cycles on the Fermat quartic surface. (English summary) **2001m:11106**
Pesenti, J. (*with* Szpiro, L.) Inégalité du discriminant pour les pinceaux elliptiques à réductions quelconques. (English and French summaries) [Inequality of the discriminant for elliptic pencils with arbitrary reductions] **2001c:11063**
Rémond, Gaël Élimination multihomogène. [Multihomogeneous elimination]
— Géométrie diophantienne multiprojective. [Multiprojective Diophantine geometry]
Silverman, Joseph H. *see* **Hindry, Marc, 2001c:11058**
Szpiro, L. *see* **Pesenti, J., 2001c:11063**
Tzermias, Pavlos The Manin-Mumford conjecture: a brief survey. (English summary) **2001g:11091**
Vojta, Paul On the *ABC* conjecture and Diophantine approximation by rational points. (English summary) **2001i:11094**
Yanchevskiĭ, Vyacheslav I. The Hasse principle for Brauer groups of function fields on the products of Severi-Brauer varieties and projective quadrics. (Russian) **2001a:14015**

14G27 Other nonalgebraically closed ground fields

Items with secondary classifications in 14G27

Colliot-Thélène, Jean-Louis Rational connectedness and Galois covers of the projective line. **2001b:14046**
Madore, David A. Theta divisors and the Frobenius morphism. **2001h:14015**
Nguyễn Quốc Thắng Weak approximation, Brauer and R-equivalence in algebraic groups over arithmetical fields. (English summary) **2001i:14025**

14G32 Universal profinite groups (relationship to moduli spaces, projective and moduli towers, Galois theory)

Chambert-Loir, Antoine La conjecture d'Abhyankar. I. Construction de revêtements en géométrie rigide. [Abhyankar's conjecture. I. Construction of coverings in rigid geometry] **2001j:14033**
Frey, Gerhard (*with* Kani, Ernst; Völklein, Helmut) Curves with infinite K-rational geometric fundamental group. **2001c:14047**
Grothendieck, Alexander ★ La longue marche à travers la théorie de Galois. Tome 1. (French) [The long march through Galois theory. Vol. 1] **2001d:14028**
Harari, David Le théorème de Tamagawa. II. [The Tamagawa theorem. II] **2001g:14041**
Ihara, Yasutaka On beta and gamma functions associated with the Grothendieck-Teichmüller groups. **2001c:14048**
Kani, Ernst *see* **Frey, Gerhard et al., 2001c:14047**
Kisin, Mark Prime to p fundamental groups, and tame Galois actions. (English and French summaries) **2001j:14035**
(Malgoire, Jean) *see* **Grothendieck, Alexander, 2001d:14028**
Nakamura, Hiroaki Limits of Galois representations in fundamental groups along maximal degeneration of marked curves. I. (English summary) **2001b:14037**
Orgogozo, Fabrice (*with* Vidal, Isabelle) Le théorème de spécialisation du groupe fondamental. [The theorem of specialization of the fundamental group] **2001g:14039**
Saïdi, Mohamed Abhyankar's conjecture. II. The use of semi-stable curves. **2001j:14034**
Streit, Manfred (*with* Wolfart, Jürgen) Characters and Galois invariants of regular dessins. (English summary) **2001h:14026**
Szamuely, Tamás Le théorème de Tamagawa. I. [The Tamagawa theorem. I] **2001g:14040**
Tamagawa, Akio On the fundamental groups of curves over algebraically closed fields of characteristic > 0. **2001h:14027**
Tsunogai, Hiroshi The stable derivation algebras for higher genera (higher genera stable derivation algebra related to Galois representations). (Japanese) (*see* **2001h:00016**)
Vidal, Isabelle *see* **Orgogozo, Fabrice, 2001g:14039**
Völklein, Helmut *see* **Frey, Gerhard et al., 2001c:14047**
Wolfart, Jürgen *see* **Streit, Manfred, 2001h:14026**

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Hatcher, Allen (*with* Lochak, Pierre; Schneps, Leila) On the Teichmüller tower of mapping class groups. (English summary) **2001h:57018**
Lochak, Pierre *see* **Hatcher, Allen et al., 2001h:57018**
Schneps, Leila *see* **Hatcher, Allen et al., 2001h:57018**
Zapponi, Leonardo Fleurs, arbres et cellules: un invariant galoisien pour une famille d'arbres. (English summary) [Flowers, trees and cells: a Galois invariant for a family of trees] **2001g:14050**

14G35 Modular and Shimura varieties [see also 11F41, 11F46, 11G18]

Goren, Eyal Z. Hilbert modular varieties in positive characteristic. (English summary) **2001b:14038**
Hulek, Klaus Igusa's modular form and the classification of Siegel modular threefolds. **2001m:14038**
Lee, Min Ho[1] (*with* Suh, Dong Youp) Torus bundles over locally symmetric varieties associated to cocycles of discrete groups. (English summary) **2001c:14049**
Logachëv, D. Yu. Action of Hecke correspondences on Heegner curves on a Siegel threefold. (English summary) **2001k:14049**
Pappas, Georgios On the arithmetic moduli schemes of PEL Shimura varieties. **2001g:14042**
Suh, Dong Youp *see* **Lee, Min Ho[1], 2001c:14049**
Wildeshaus, Jörg Mixed sheaves on Shimura varieties and their higher direct images in toroidal compactifications. **2001a:14020**

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Baker, Matthew H. Torsion points on modular curves. (English summary) **2001g:11092**
Blasius, Don (*with* Rogawski, Jonathan D.) Cohomology of congruence subgroups of $SU(2,1)^p$ and Hodge cycles on some special complex hyperbolic surfaces. **2001a:11088**
Carayol, Henri Quelques relations entre les cohomologies des variétés de Shimura et celles de Griffiths-Schmid (cas du groupe $SU(2,1)$). (English summary) [Some relations between the cohomologies of Shimura and Griffiths-Schmid varieties (case of the group $SU(2,1)$)] **2001e:11056**
Chai, Ching-Li Newton polygons as lattice points. (English summary) **2001k:11110**
Derome, Geoffroy Transcendance des valeurs des fonctions automorphes de Siegel. (English and French summaries) [Transcendence of the values of Siegel automorphic functions] **2001j:11070**
Edixhoven, Bas *see* **de Smit, Bart, 2001j:11043**
Freitag, Eberhard (*with* Hunt, Bruce) The dual of the invariant quintic. (English summary) **2001a:14056**
— (*with* Hermann, Carl Friedrich) Some modular varieties of low dimension. **2001j:11023**
Gordon, B. Brent (*with* Murre, Jacob P.) Chow motives of elliptic modular threefolds. (English summary) **2001a:14005**
Grundman, H. G. Nonrational Hilbert modular threefolds. (English summary) **2001d:11050**
Hamahata, Yoshinori A note on Hilbert modular threefolds. (English summary) **2001b:11035**
Hermann, Carl Friedrich *see* **Freitag, Eberhard, 2001j:11023**
Hunt, Bruce *see* **Freitag, Eberhard, 2001a:14056**
Ihara, Yasutaka Shimura curves over finite fields and their rational points. **2001g:11094**
Kudla, Stephen S. (*with* Rapoport, Michael) Height pairings on Shimura curves and p-adic uniformization. **2001j:11042**
Künnemann, Klaus Uniformization of Shimura curves by the p-adic upper half plane. **2001g:11095**
Murre, Jacob P. *see* **Gordon, B. Brent, 2001a:14005**
Rapoport, Michael *see* **Kudla, Stephen S., 2001j:11042**
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Rohrlich, David E. False division towers of elliptic curves. **2001f:11091a**
— A deformation of the Tate module. **2001f:11091b**
Sasaki, Takeshi (*with* Yoshida, Masaaki) The uniformizing differential equation of the complex hyperbolic structure on the moduli space of marked cubic surfaces. (English summary) **2001a:14033**
de Smit, Bart (*with* Edixhoven, Bas) Sur un résultat d'Imin Chen. (English and French summaries) [On a result of Imin Chen] **2001j:11043**
Venkataramana, T. N. Abelianness of Mumford-Tate groups associated to some unitary groups. (English summary) **2001j:11044**
Wedhorn, Torsten Congruence relations on some Shimura varieties. (English summary) **2001j:11045**
Yoshida, Masaaki *see* **Sasaki, Takeshi, 2001a:14033**

14G40 Arithmetic varieties and schemes; Arakelov theory; heights [see also 11G50]

Abbes, Ahmed Cycles on arithmetic surfaces. (English summary) **2001i:14035**
— The Grothendieck-Ogg-Shafarevich formula for arithmetic surfaces. **2001b:14039**
Ernê, Reinie Reducibility mod p of integral closed subschemes in projective spaces—an application of arithmetic Bézout. (English summary) **2001i:14036**
Gasbarri, Carlo Heights and geometric invariant theory. (English summary) **2001k:14050**
Gillet, Henri (*with* Soulé, Christophe) Direct images in non-Archimedean Arakelov theory. (English and French summaries) **2001j:14036**
Kawaguchi, Shu Height and arithmetic intersection for a family of semi-stable curves. (English summary) **2001b:14040**
Liu, Qing[1] (*with* Saitô, Takeshi) Inequality for conductor and differentials of a curve over a local field. **2001g:14043**
Maillot, Vincent Géométrie d'Arakelov des variétés toriques et fibrés en droites intégrables. (English and French summaries) [Arakelov geometry of toric varieties and integrable line bundles] **2001j:14037**
Saitô, Takeshi *see* **Liu, Qing[1], 2001g:14043**
Soulé, Christophe *see* **Gillet, Henri, 2001j:14036**
Strauch, Matthias (*with* Tschinkel, Yuri) Height zeta functions of toric bundles over flag varieties. **2001h:14028**
Tamvakis, Harry Height formulas for homogeneous varieties. (English summary) **2001i:14037**
Tschinkel, Yuri *see* **Strauch, Matthias, 2001h:14028**

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Amoroso, Francesco (*with* David, Sinnou) Minoration de la hauteur normalisée des hypersurfaces. [Lower bound for the normalized height of hypersurfaces] **2001f:11102**
Cassaigne, Julien (*with* Maillot, Vincent) Hauteur des hypersurfaces et fonctions zêta d'Igusa. (French summary) [Height of hypersurfaces and Igusa zeta functions] **2001k:11117**
Chambert-Loir, Antoine (*with* Tschinkel, Yuri) Points of bounded height on equivariant compactifications of vector groups. I. (English summary) **2001j:11053**
— (*with* Tschinkel, Yuri) Points of bounded height on equivariant compactifications of vector groups. II. (English summary) **2001k:11118**
Chinburg, Ted (*with* Pappas, Georgios; Taylor, Martin J.) ε-constants and the Galois structure of de Rham cohomology. II. **2001a:14016**
— (*with* Pappas, Georgios; Taylor, Martin J.) ε-constants and Arakelov Euler characteristics. **2001g:11100**
David, Sinnou (*with* Philippon, Patrice) Minorations des hauteurs normalisées des sous-variétés des tores. (English summary) [Lower bounds for the normalized heights of toric subvarieties] **2001a:11109**
— (*with* Philippon, Patrice) Sous-variétés de torsion des variétés semi-abéliennes. (English and French summaries) [Torsion subvarieties of semi-abelian varieties] **2001k:14084**

— *see also* **Amoroso, Francesco**, 2001f:11102
Deninger, Christopher On dynamical systems and their possible significance for arithmetic geometry. **2001g:11102**
Erné, Reinie Reducibility mod p of hypersurfaces in projective spaces—an application of arithmetic Bézout. (English summary) **2001j:11055**
Ferretti, Roberto G. Mumford's degree of contact and Diophantine approximations. (English summary) **2001f:11110**
Harris, Bruno (*with* Wang, Bin[7]) Height pairings asymptotics and Bott-Chern forms. **2001f:32040**
Maillot, Vincent *see* **Cassaigne, Julien**, 2001k:11117
Moriwaki, Atsushi Arithmetic height functions over finitely generated fields. (English summary) **2001g:11104**
Mulase, M. (*with* Penkava, Michael) Ribbon graphs, quadratic differentials on Riemann surfaces, and algebraic curves defined over $\overline{\mathbf{Q}}$. (English summary) **2001g:30028**
Pappas, Georgios *see* **Chinburg, Ted et al.**, 2001a:14016 *and* 2001g:11100
Penkava, Michael *see* **Mulase, M.**, 2001g:30028
Philippon, Patrice Diophantine geometry.
— *see also* **David, Sinnou**, 2001a:11109; 2001k:14084 *and* **Sinnou, David**, 2001k:11119
Poonen, Bjorn Mordell-Lang plus Bogomolov. **2001c:11070**
Rémond, Gaël Géométrie diophantienne multiprojective. [Multiprojective Diophantine geometry]
Sinnou, David (*with* Philippon, Patrice) Errata: "Lower bounds for the normalized heights of toric subvarieties" [Ann. Scuola Norm. Sup. Pisa Cl. Sci. (4) **28** (1999), no. 3, 489–543; MR 2001a:11109]. (French) **2001k:11119**
Taylor, Martin J. *see* **Chinburg, Ted et al.**, 2001a:14016 *and* 2001g:11100
Tian, Qingchun Generalized Chow forms and reduction of semi-stable varieties. (English summary) **2001g:11105**
Tschinkel, Yuri *see* **Chambert-Loir, Antoine**, 2001j:11053 *and* 2001k:11118
Wang, Bin[7] *see* **Harris, Bruno**, 2001f:32040
Zarkhin, Yu. G. Local heights and Néron pairings. (Russian) **2001d:11073**

14G50 Applications to coding theory and cryptography [see also 94A60, 94B27, 94B40]

Berry, T. G. Continued fractions in hyperelliptic function fields. (English summary) **2001c:14050**
Boguslavskiĭ, M. I. Sections of del Pezzo surfaces, and generalized weights. (Russian. Russian summary) **2001b:14041**
Hu, Lei Fast multiplication on certain elliptic curves. (English summary)
Jacobson, Michael J. (*with* Koblitz, Neal; Silverman, Joseph H.; Stein, Andreas; Teske, Edlyn) Analysis of the xedni calculus attack. (English summary) **2001b:14043**
Koblitz, Neal *see* **Jacobson, Michael J. et al.**, 2001b:14043
Silverman, Joseph H. The xedni calculus and the elliptic curve discrete logarithm problem. (English summary) **2001b:14042**
— *see also* **Jacobson, Michael J. et al.**, 2001b:14043
Stein, Andreas *see* **Jacobson, Michael J. et al.**, 2001b:14043
Teske, Edlyn *see* **Jacobson, Michael J. et al.**, 2001b:14043
Walker, Judy L. ★ Codes and curves. (English summary) **2001f:14046**

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Be'ery, Yair *see* **Shany, Yaron**, 2001e:94020
Bian, Zheng Zhong *see* **Lu, Chen et al.**
Blake, I. F. (*with* Seroussi, G.; Smart, N. P.) ★ Elliptic curves in cryptography. (English summary) **2001i:94048**
Campillo, Antonio (*with* Farrán, José Ignacio) Computing Weierstrass semigroups and the Feng-Rao distance from singular plane models. (English summary) **2001a:14026**
Cheon, Jung Hee *see* **Kim, Hwan Joon et al.**, 2001h:11078
Farrán, José Ignacio Decoding algebraic geometry codes by a key equation. (English summary) **2001g:94022**
— *see also* **Campillo, Antonio**, 2001a:14026
Galbraith, Steven D. (*with* McKee, James) The probability that the number of points on an elliptic curve over a finite field is prime. (English summary) **2001m:11099**
Gao, Shuhong (*with* Shokrollahi, M. Amin) Computing roots of polynomials over function fields of curves. (English summary) **2001e:14059**
Gaudry, Pierrick An algorithm for solving the discrete log problem on hyperelliptic curves. (English summary) (*see* **2001b:94028**)
Hahn, Sang Geun *see* **Kim, Hwan Joon et al.**, 2001h:11078
Hao, Wei *see* **Lu, Chen et al.**
Kim, Hwan Joon (*with* Cheon, Jung Hee; Hahn, Sang Geun) On remarks of lifting problems for elliptic curves. (English summary) **2001h:11078**
Knudsen, Erik Woodward Elliptic scalar multiplication using point halving. (English summary) **2001d:94016**
Koblitz, Neal (*with* Menezes, Alfred; Vanstone, Scott A.) The state of elliptic curve cryptography. (English summary) **2001i:94065**
Lachaud, Gilles (*with* Lucien, Isabelle; Mercier, Dany-Jack; Rolland, Robert) Group structure on projective spaces and cyclic codes over finite fields. (English summary) **2001c:11133**
Lam, Kwok-Yan *see* **Xing, Chaoping et al.**, 2001a:94032
Lercier, Reynald (*with* Morain, F.) Computing isogenies between elliptic curves over $\mathbf{F}_{p^n}$ using Couveignes's algorithm. (English summary) **2001a:11101**
Li, Wen-Ching Winnie Various constructions of good codes. (English summary) **2001h:11154**
Ling, San *see* **Xing, Chaoping**, 2001j:94051
Lu, Chen (*with* Zhou, Qin Wu; Bian, Zheng Zhong; Wang, Bing Kang; Hao, Wei) The point choosing algorithm of elliptic curve cryptography. (Chinese. English and Chinese summaries)
Lucien, Isabelle *see* **Lachaud, Gilles et al.**, 2001c:11133
Matsumoto, Ryutaroh (*with* Miura, Shinji) Finding a basis of a linear system with pairwise distinct discrete valuations on an algebraic curve. (English summary) **2001m:14012**
McKee, James *see* **Galbraith, Steven D.**, 2001m:11099
Menezes, Alfred *see* **Koblitz, Neal et al.**, 2001i:94065
Mercier, Dany-Jack *see* **Lachaud, Gilles et al.**, 2001c:11133
Miura, Shinji *see* **Matsumoto, Ryutaroh**, 2001m:14012
Morain, F. *see* **Lercier, Reynald**, 2001a:11101
Norton, Graham H. (*with* Salagean-Mandache, Ana Maria) On the structure of linear and cyclic codes over a finite chain ring. (English summary) **2001k:94068**
Rentería Márquez, Carlos (*with* Tapia Recillas, Horacio) Reed-Muller type codes on the Veronese variety over finite fields. (English summary) **2001d:94032**
Rodier, F. Nombre de points des surfaces de Deligne et Lusztig. (English and French summaries) [Number of points of Deligne-Lusztig surfaces] **2001g:14080**
Rolland, Robert *see* **Lachaud, Gilles et al.**, 2001c:11133
Salagean-Mandache, Ana Maria *see* **Norton, Graham H.**, 2001k:94068
Seroussi, G. *see* **Blake, I. F. et al.**, 2001i:94048
Shany, Yaron (*with* Be'ery, Yair) Bounds on the state complexity of codes from the Hermitian function field and its subfields. (English summary) **2001e:94020**
Shokrollahi, M. Amin *see* **Gao, Shuhong**, 2001e:14059
Smart, N. P. *see* **Blake, I. F. et al.**, 2001i:94048
Stepanov, Sergei Aleksandrovich ★ Codes on algebraic curves. **2001g:94001**
Tapia Recillas, Horacio *see* **Rentería Márquez, Carlos**, 2001d:94032
Tsfasman, M. A. Lectures on global fields, lattices and codes. **2001k:11129**
Vanstone, Scott A. *see* **Koblitz, Neal et al.**, 2001i:94065
Voloch, José Felipe (*with* Walker, Judy L.) Euclidean weights of codes from elliptic curves over rings. (English summary) **2001i:94083**
Walker, Judy L. Algebraic geometric codes over rings. (English summary) **2001k:94075**
— *see also* **Voloch, José Felipe**, 2001i:94083
Wang, Bing Kang *see* **Lu, Chen et al.**
Wang, Huaxiong (*with* Xing, Chaoping) Explicit constructions of perfect hash families from algebraic curves over finite fields. (English summary) **2001m:11102**
— *see also* **Xing, Chaoping et al.**, 2001a:94032
Wu, Xinwen Parameters of the codes over affine varieties. (English summary) **2001j:94058**
Xing, Chaoping (*with* Wang, Huaxiong; Lam, Kwok-Yan) Constructions of authentication codes from algebraic curves over finite fields. (English summary) **2001a:94032**
— (*with* Ling, San) A class of linear codes with good parameters from algebraic curves. (English summary) **2001j:94051**
— *see also* **Wang, Huaxiong**, 2001m:11102
Zhou, Qin Wu *see* **Lu, Chen et al.**

14G99 None of the above, but in this section

Items with secondary classifications in 14G99

Loeser, François Solutions exactes et solutions approchées d'équations polynomiales. [Exact and approximate solutions of polynomial equations] **2001j:14004**
Rojas, J. Maurice Uncomputably large integral points on algebraic plane curves? (English summary) **2001h:11155**

14Hxx Curves

14H05 Algebraic functions; function fields [see also 11R58]

Brylinski, Jean-Luc (*with* Previato, Emma) Koszul complexes, differential operators, and the Weil-Tate reciprocity law. **2001k:14051**
Filimonenkov, V. O. (*with* Shabat, G. B.) Fields of definition of rational functions of one variable with three critical values. (Russian. English and Russian summaries) **2001e:14027**
Miura, Kei Field theory for function fields of singular plane quartic curves. (English summary) **2001h:14029**
— (*with* Yoshihara, Hisao) Field theory for the function field of the quintic Fermat curve. (English summary) **2001f:14047b**
— (*with* Yoshihara, Hisao) Field theory for function fields of plane quartic curves. (English summary) **2001f:14047a**
Previato, Emma *see* **Brylinski, Jean-Luc**, 2001k:14051
Shabat, G. B. *see* **Filimonenkov, V. O.**, 2001e:14027
Yoshihara, Hisao Field theory and geometry for the function field of hypersurfaces. (Japanese) (*see* **2001m:14003**)
— *see also* **Miura, Kei**, 2001f:14047a *and* 2001f:14047b

Items with secondary classifications in 14H05

Bell, Steven R. A Riemann surface attached to domains in the plane and complexity in potential theory. (English summary) **2001m:30009**
Leep, David B. (*with* Schueller, Laura Mann) Pencils of quadratic forms and hyperelliptic function fields. (English summary) **2001c:11046**
López Bautista, Pedro Ricardo (*with* Villa-Salvador, Gabriel Daniel) On the Galois module structure of semisimple holomorphic differentials. (English summary) **2001f:12007**
Scheidler, R. Purely cubic complex function fields with small units. **2001g:11178**
Schueller, Laura Mann *see* **Leep, David B.**, 2001c:11046
Villa-Salvador, Gabriel Daniel *see* **López Bautista, Pedro Ricardo**, 2001f:12007
Zahidi, Karim The existential theory of real hyperelliptic function fields. (English summary) **2001i:11150**

14H10 Families, moduli (algebraic)

Arbarello, Enrico (*with* Cornalba, Maurizio) Calculating cohomology groups of moduli spaces of curves via algebraic geometry. **2001h:14030**
del Baño Rollin, Sebastian The moduli space of curves. (Catalan)
Bardelli, F. (*with* Del Centina, A.) Bielliptic curves of genus three: canonical models and moduli space. (English summary) **2001m:14039**

Belorousski, Pavel (*with* Pandharipande, Rahul) A descendent relation in genus 2. (English summary) **2001g:14044**
Cornalba, Maurizio *see* **Arbarello, Enrico, 2001h:14030**
Del Centina, A. *see* **Bardelli, F., 2001m:14039**
Faber, Carel (*with* Looijenga, Eduard) Remarks on moduli of curves. (English summary) **2001b:14044**
Farkas, Gavril The geometry of the moduli space of curves of genus 23. **2001f:14048**
Gatto, Letterio ★ Intersection theory on moduli spaces of curves. **2001k:14052**
van Geemen, Bert (*with* Oort, Frans) A compactification of a fine moduli space of curves. **2001f:14049**
Greuel, Gert-Martin (*with* Lossen, Christoph; Shustin, Evgenii) Castelnuovo function, zero-dimensional schemes and singular plane curves. (English summary) **2001g:14045**
Jarvis, Tyler J. Geometry of the moduli of higher spin curves. (English summary) **2001f:14050**
— Compactification of the universal Picard over the moduli of stable curves. (English summary) **2001m:14040**
Looijenga, Eduard A minicourse on moduli of curves. (English summary) **2001k:14053**
— *see also* **Faber, Carel, 2001b:14044**
Lossen, Christoph *see* **Greuel, Gert-Martin et al., 2001g:14045**
Manin, Yurii Ivanovich (*with* Zograf, P. G.) Invertible cohomological field theories and Weil-Petersson volumes. (English and French summaries) **2001g:14046**
Mauger, David Module des courbes stables. [Moduli of stable curves] **2001j:14038**
Oka, Mutsuo[1] Moduli of sextics and its geometry. (*see* **2001c:14004**)
— Another involution of moduli of sextics. **2001k:14054**
Oort, Frans *see* **van Geemen, Bert, 2001f:14049**
Pandharipande, Rahul *see* **Belorousski, Pavel, 2001g:14044**
Sernesi, Edoardo Families of curves on algebraic surfaces. (Italian) **2001f:14051**
Shustin, Evgenii *see* **Greuel, Gert-Martin et al., 2001g:14045**
Stankova-Frenkel, Zvezdelina E. Moduli of trigonal curves. (English summary) **2001h:14031**
Zograf, P. G. *see* **Manin, Yurii Ivanovich, 2001g:14046**

Items with secondary classifications in 14H10

Abramovich, Dan (*with* Oort, Frans) Alterations and resolution of singularities. **2001h:14009**
Avritzer, Dan (*with* Lange, Herbert) Pencils of quadrics, binary forms and hyperelliptic curves. **2001k:14026**
Bertin, José (*with* Mézard, Ariane) Déformations formelles des revêtements sauvagement ramifiés de courbes algébriques. (English summary) [Formal deformations of wildly ramified coverings of algebraic curves] **2001f:14023**
Bonelli, Giulio (*with* Bonora, L.; Nesti, F.; Tomasiello, Alessandro) Heterotic matrix string theory and Riemann surfaces. (English summary) **2001c:81143**
Bonora, L. *see* **Bonelli, Giulio et al., 2001c:81143**
Coppens, Marc Smooth curves possessing a small number of linear systems computing the gonality. **2001m:14053**
Couveignes, Jean-Marc Boundary of Hurwitz spaces and explicit patching. (English summary) **2001m:12008**
Dethloff, Gerd (*with* Orevkov, Stepan Yu.; Zaidenberg, Mikhail) Plane curves with a big fundamental group of the complement. (English summary) **2001d:14030**
Esnault, Hélène (*with* Tsai, I-Hsun) Determinant bundle in a family of curves, after A. Beilinson and V. Schechtman. (English summary) **2001c:14024**
Esteves, Eduardo (*with* Medeiros, Nivaldo) Limits of Weierstrass points in regular smoothings of curves with two components. (English and French summaries) **2001k:14063**
Gordon, B. Brent (*with* Murre, Jacob P.) Chow motives of elliptic modular threefolds. (English summary) **2001a:14005**
Gotzmann, Gerd Die Néron-Severi-Gruppe eines Hilbertschemas von Raumkurven und der universellen Kurve. [The Néron-Severi group of the Hilbert scheme of space curves and the universal curve] **2001k:14007**
Hartshorne, Robin (*with* Martin-Deschamps, Mireille; Perrin, Daniel) Triades et familles de courbes gauches. [Triads and families of space curves] **2001c:14053**
Hulek, Klaus Nef divisors on moduli spaces of abelian varieties. **2001d:14046**
Kato, Fumiharu Log smooth deformation and moduli of log smooth curves. (English summary) **2001d:14016**
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14H42 Theta functions; Schottky problem [see also 14K25, 32G20]

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Demidov, E. E. The Kadomtsev-Petviashvili hierarchy and the Schottky problem. (Russian. English and Russian summaries) **2001m:37148**
Farkas, Hershel M. (*with* Kra, Irwin) Special sets of points on compact Riemann surfaces. (English summary) **2001e:30082**
Hidalgo-Solís, Laura (*with* Recillas-Pishmish, Sevin) The fibre of the Prym map in genus four. (Italian summary) **2001j:14043**
Korotkin, Dmitriĭ A. Introduction to the functions on compact Riemann surfaces and theta-functions. (English summary) **2001f:14062**
— Isomonodromic deformations in genus zero and one: algebro-geometric solutions and Schlesinger transformations. (English summary) **2001i:34155**
Kra, Irwin *see* **Farkas, Hershel M., 2001e:30082**
Mumford, David ★ The red book of varieties and schemes. (English summary) **2001b:14001**
Muñoz Porras, J. M. (*with* Plaza-Martín, Francisco J.) Equations of the moduli of pointed curves in the infinite Grassmannian. (English summary) **2001a:14032**
Plaza-Martín, Francisco J. Algebraic solutions of the multicomponent KP hierarchy. (English summary) **2001g:14058**
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Recillas-Pishmish, Sevin *see* **Hidalgo-Solís, Laura, 2001j:14043**
Sun, Xiaotao Degeneration of moduli spaces and generalized theta functions. **2001h:14040**
Yamada, Akira Fay's trisecant formula and Hardy H^2 reproducing kernels. (English summary) **2001h:30012**

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14H45 Special curves and curves of low genus

Amburg, Natalia Regular unicellular dessins d'enfants and Weil curves. **2001j:14044**
Arakawa, Tatsuya A note on normally generated line bundles on compact Riemann surfaces. II. **2001k:14057**
Ballico, Edoardo (*with* Cossidente, Antonio) Osculating subspaces, normal rational curves and generalized strange curves. **2001m:14045**
Cossidente, Antonio *see* **Ballico, Edoardo, 2001m:14045**
Flamini, F. (*with* Madonna, C.) Geometric linear normality for nodal curves on some projective surfaces. (Italian summary) **2001m:14046**
Giraldo, Luis A bound for the arithmetic genus of curves in Grassmannians. **2001h:14033**
Gonzalez-Dorrego, M. R. On the normal bundle of curves on nodal quartic surfaces. (English summary) **2001k:14058**
Kojima, Hideo On Veys' conjecture. (English summary) **2001m:14047**
Madonna, C. *see* **Flamini, F., 2001m:14046**
Nakazato, Hiroshi Numerical range and sextic rational curves. (English summary)
Orecchia, Ferruccio The ideal generation conjecture for general rational projective curves. (English summary) **2001m:14048**
Strano, Rosario Curves and their hyperplane sections. (English summary) **2001m:14049**
Thoma, Apostolos On the binomial arithmetical rank. (English summary) **2001a:14023**

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Avritzer, Dan (*with* Lange, Herbert) Pencils of quadrics, binary forms and hyperelliptic curves. **2001k:14026**
Ballico, Edoardo (*with* Miyazaki, Chikashi) Generic hyperplane section of curves and an application to regularity bounds in positive characteristic. (English summary) **2001m:14006**
Bardelli, F. (*with* Del Centina, A.) Bielliptic curves of genus three: canonical models and moduli space. (English summary) **2001m:14039**
Ciliberto, Ciro (*with* Kouvidakis, Alexis) On the symmetric product of a curve with general moduli. (English summary) **2001e:14005**
Coppens, Marc Existence of pencils with prescribed scrollar invariants of some general type. **2001g:14006**
— The number of linear systems computing the gonality. (English summary) **2001c:14054**
— (*with* Martens, Gerriet) Linear series on 4-gonal curves. (English summary) **2001h:14037**
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Doi, Hiroshi (*with* Idei, Kunihiro; Kaneta, Hitoshi) Uniqueness of the most symmetric non-singular plane sextics. **2001g:14051**
Elkies, Noam D. The Klein quartic in number theory. (English summary) **2001a:11103**
Enriquez, B. (*with* Rubtsov, Vladimir) Some examples of quantum groups in higher genus. (English summary) **2001m:17014**
Estrada Sarlabous, Jorge (*with* Reinaldo Barreiro, Ernesto; Piñeiro Barceló, Jorge Alejandro) On the Jacobian varieties of Picard curves: explicit addition law and algebraic structure. (English summary) **2001c:14051**
Gmainer, Johannes Pascal's triangle, normal rational curves, and their invariant subspaces. (English summary) **2001m:51030**
Gushchin, M. A. (*with* Korobeĭnikov, A. N.; Polotovskiĭ, Grigoriĭ M.) Construction of mutual arrangements of a cubic and a quartic by patchworking. (Russian. English and Russian summaries) **2001k:14107**
Hayakawa, Keizo On the family of Riemann surfaces of genus 3 defined by $x^4 + y^4 + z^4 + 2tx^2y^2 + ux^2z^2 + vy^2z^2 = 0$ related to Weierstrass points and automorphism groups. (English summary) **2001e:14030**
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Idei, Kunihiro *see* **Doi, Hiroshi et al., 2001g:14051**
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Leprévost, Franck (*with* Markushevich, D. G.) A tower of genus two curves related to the Kowalewski top. (English summary) **2001a:14031**
Mancini, Marina Normally generated line bundles of smallest degree on curves. (English and Italian summaries) **2001k:14019**
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Martens, Gerriet *see* **Coppens, Marc, 2001h:14037**
Miyazaki, Chikashi *see* **Ballico, Edoardo, 2001m:14006**
Namba, Makoto Moduli of rational functions and rational plane curves. (*see* **2001m:14003**)
Oka, Mutsuo[1] Another involution of moduli of sextics. **2001k:14054**
Piñeiro Barceló, Jorge Alejandro *see* **Estrada Sarlabous, Jorge et al., 2001c:14051**
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Recillas-Pishmish, Sevin *see* **Hidalgo-Solís, Laura, 2001b:14049** *and* **2001j:14043**
Reinaldo Barreiro, Ernesto *see* **Estrada Sarlabous, Jorge et al., 2001c:14051**
Rosa, Renata Non-classical trigonal curves. (English summary) **2001b:14047**
Rubtsov, Vladimir *see* **Enriquez, B., 2001m:17014**
Tedeschi, G. The genus of reduced space curves. (English summary) **2001a:14025**
Teicher, Mina *see* **Kulikov, Vik. S., 2001f:14030**
Veech, William A. Geometric realizations of hyperelliptic curves. II. (English summary) **2001a:14021**

14H50 Plane and space curves

Artal-Bartolo, Enrique (*with* Tokunaga, Hiro-o) Zariski pairs of index 19 and Mordell-Weil groups of $K3$ surfaces. **2001a:14024**
Ciliberto, Ciro (*with* Lopez, Angelo Felice; Miranda, Rick) On the Wahl map of plane nodal curves. **2001e:14029**
Flenner, Hubert (*with* Zaidenberg, Mikhail) Rational cuspidal plane curves of type $(d, d-3)$. (English summary) **2001h:14034**
Fløystad, Gunnar Curves on normal surfaces. (English summary) **2001j:14045**
Hartshorne, Robin Coherent functors and families of space curves. (English summary)
— (*with* Martin-Deschamps, Mireille; Perrin, Daniel) Triades et familles de courbes gauches. [Triads and families of space curves] **2001c:14053**
— (*with* Martin-Deschamps, Mireille; Perrin, Daniel) Construction de familles minimales de courbes gauches. (English summary) [Construction of minimal families of space curves] **2001g:14053**
Hein, Georg Curves in $\mathbf{P}^3$ with good restriction of the tangent bundle. (English summary) **2001f:14059**
Kock, Anders The osculating plane of a space curve—synthetic formulations. **2001h:14035**
Lopez, Angelo Felice *see* **Ciliberto, Ciro et al., 2001e:14029**
Martin-Deschamps, Mireille (*with* Perrin, Daniel) Triades et déformations de sous-quotients. [Triads and deformations of subquotients] **2001k:14059**
— *see also* **Hartshorne, Robin et al., 2001c:14053** *and* **2001g:14053**
Miranda, Rick *see* **Ciliberto, Ciro et al., 2001e:14029**
Miró Roig, Rosa Maria (*with* Nollet, Scott) Bounds on the Rao function. (English summary) **2001h:14036**
Mulay, S. B. Classification of plane cubic curves. (*see* **2001b:13002**)
Nollet, Scott *see* **Miró Roig, Rosa Maria, 2001h:14036**
Perrin, Daniel *see* **Hartshorne, Robin et al., 2001c:14053; 2001g:14053** *and* **Martin-Deschamps, Mireille, 2001k:14059**
Roé, Joaquim On the existence of plane curves with imposed multiple points. (English summary) **2001m:14050**
Tedeschi, G. The genus of reduced space curves. (English summary) **2001a:14025**
Tokunaga, Hiro-o (2, 3) torus sextics and the Albanese images of 6-fold cyclic multiple planes. **2001f:14060**
— *see also* **Artal-Bartolo, Enrique, 2001a:14024**
Zaidenberg, Mikhail *see* **Flenner, Hubert, 2001h:14034**

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Aït-Amrane, Samir (*with* Perrin, Daniel) Un contre-exemple sur les familles de courbes gauches. (English and French summaries) [A counterexample for families of space curves] **2001m:14007**
Aluffi, Paolo (*with* Faber, Carel) Linear orbits of arbitrary plane curves. **2001h:14068**
Ballico, Edoardo Weierstrass points and Weierstrass pairs on singular plane curves. (English summary) **2001k:14062**
Campillo, Antonio (*with* Farrán, José Ignacio) Computing Weierstrass semigroups and the Feng-Rao distance from singular plane models. (English summary) **2001a:14026**
Chen, Xi[2] On the intersection of two plane curves. **2001m:14011**
Doi, Hiroshi (*with* Idei, Kunihiro; Kaneta, Hitoshi) Uniqueness of the most symmetric non-singular plane sextics. **2001g:14051**
Eisenbud, David (*with* Harris, Joseph Daniel) ★ The geometry of schemes. (English summary) **2001d:14002**
Ellia, Ph. (*with* Hirschowitz, André; Manivel, Laurent) Problème de Brill-Noether pour les fibrés de Steiner. Applications aux courbes gauches. (English and French summaries) [Brill-Noether problem for Steiner bundles. Application to space curves] **2001g:14068**
Faber, Carel *see* **Aluffi, Paolo, 2001h:14068**
Farrán, José Ignacio *see* **Campillo, Antonio, 2001a:14026**
Franco, Davide Curves in $\mathbf{P}^3$ with quasi-linear resolution. (English summary) **2001c:14063**
García Barroso, Evelia R. Sur les courbes polaires d'une courbe plane réduite. [The polar curves of a reduced plane curve] **2001f:14052**
Ginouillac, Stéphane Sur le nombre de composantes du schéma de Hilbert des courbes ACM de $\mathbf{P}^1_k$. (English and French summaries) [On the number of components of the Hilbert scheme of ACM space curves] **2001d:14005**
Greuel, Gert-Martin (*with* Lossen, Christoph; Shustin, Evgenii) Castelnuovo function, zero-dimensional schemes and singular plane curves. (English summary) **2001g:14045**
Harris, Joseph Daniel *see* **Eisenbud, David, 2001d:14002**
Hartshorne, Robin (*with* Schlesinger, Enrico) Curves in the double plane. (English summary) **2001k:14008**
Hirschowitz, André *see* **Ellia, Ph. et al., 2001g:14068**
Idei, Kunihiro *see* **Doi, Hiroshi et al., 2001g:14051**
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Lossen, Christoph *see* **Greuel, Gert-Martin et al., 2001g:14045**
Manivel, Laurent *see* **Ellia, Ph. et al., 2001g:14068**
Miura, Kei Field theory for function fields of singular plane quartic curves. (English summary) **2001h:14029**
— (*with* Yoshihara, Hisao) Field theory for the function field of the quintic Fermat curve. (English summary) **2001f:14047b**
— (*with* Yoshihara, Hisao) Field theory for function fields of plane quartic curves. (English summary) **2001f:14047a**
Nobile, Augusto On some classical methods to improve algebraic curves and surfaces. (English summary) **2001i:14070**
Oka, Mutsuo[1] Another involution of moduli of sextics. **2001k:14054**
Orevkov, Stepan Yu. Markov moves for quasipositive braids. (English and French summaries) **2001m:57015**
Perrin, Daniel *see* **Aït-Amrane, Samir, 2001m:14007**
Schlesinger, Enrico *see* **Hartshorne, Robin, 2001k:14008**
Shpilrain, Vladimir (*with* Yu, Jie-Tai) Embeddings of curves in the plane. (English summary) **2001f:13012**
Shustin, Evgenii *see* **Greuel, Gert-Martin et al., 2001g:14045**
Sols Lucia, Ignacio On the apparent nodes of a smooth space curve. (English summary) **2001k:14098**
Welschinger, Jean-Yves J-courbes réelles à nids profonds sur les surfaces réglées. (French and Russian summaries) [Real J-curves with deep nests on ruled surfaces] **2001m:14083**
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Yu, Jie-Tai *see* **Shpilrain, Vladimir, 2001f:13012**

14H51 Special divisors (gonality, Brill-Noether theory)

Accola, Robert D. M. A classification of trigonal Riemann surfaces. (English summary) **2001b:14051**
Ballico, Edoardo On projectively normal embeddings of general k-gonal curves. (English and Italian summaries) **2001j:14046**
— Trigonal Gorenstein curves and special linear systems. (English summary) **2001m:14051**
— Brill-Noether theory for rank 1 torsion free sheaves on singular projective curves. (English summary) **2001d:14031**
Brambila-Paz, L. (*with* Mercat, V.; Newstead, P. E.; Ongay-Larios, Fausto) Nonemptiness of Brill-Noether loci. (English summary) **2001m:14052**
Coppens, Marc Smooth curves possessing a small number of linear systems computing the gonality. **2001m:14053**
— The number of linear systems computing the gonality. (English summary) **2001c:14054**
— (*with* Martens, Gerriet) Linear series on 4-gonal curves. (English summary) **2001h:14037**
Gunning, Robert C. Maximal sequences of compact Riemann surfaces. **2001f:14061**
Hidalgo-Solís, Laura Period matrix and the trigonal construction. (English summary) **2001d:14032**
Martens, Gerriet *see* **Coppens, Marc, 2001h:14037**
Mercat, V. *see* **Brambila-Paz, L. et al., 2001m:14052**
Newstead, P. E. *see* **Brambila-Paz, L. et al., 2001m:14052**
Ongay-Larios, Fausto *see* **Brambila-Paz, L. et al., 2001m:14052**

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— (*with* Del Centina, A.) Ramification points of double coverings of curves and Weierstrass points. (English summary) **2001h:14038**
Coppens, Marc Existence of pencils with prescribed scrollar invariants of some general type. **2001g:14006**
Del Centina, A. *see* **Ballico, Edoardo, 2001h:14038**
Farkas, Gavril The geometry of the moduli space of curves of genus 23. **2001f:14048**
Keem, C. *see* **Ballico, Edoardo et al., 2001g:14054**
Kim, Seon Jeong *see* **Ballico, Edoardo et al., 2001g:14054**
Mignon, Thierry Systèmes de courbes planes à singularités imposées: le cas des multiplicités inférieures ou égales à quatre. (English summary) [Systems of plane curves with prescribed singularities: the case of multiplicities ≤ 4] **2001g:14048**
Stankova-Frenkel, Zvezdelina E. Moduli of trigonal curves. (English summary) **2001h:14031**
Terakawa, Hiroyuki Addendum: "Higher order embeddings of algebraic surfaces of Kodaira dimension zero" [Math. Z. **229** (1998), no. 3, 417–433; MR 99m:14013]. **2001m:14013**

14H52 Elliptic curves [see also 11G05, 11G07, 14Kxx]

Menkova, D. Determination of the number of special normsurfaces in $\mathbf{P}_5$ containing a given elliptic curve C^6. (Bulgarian. English, Russian and Bulgarian summaries) **2001b:14052**
Tanaka, Tatsuji On the Chow-forms of elliptic normal curves of degree 4. (English summary) **2001k:14060**
Treibich, Armando Analogues discrets des polynômes et revêtements tangentiels. (English and French summaries) [Discrete analogs of tangential polynomials and covers] **2001k:14061**

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Ably, Mohammed Formes linéaires de logarithmes de points algébriques sur une courbe elliptique de type CM. (English and French summaries) [Linear forms in logarithms of algebraic points over an elliptic curve of CM type] **2001g:11119**

Ando, Matthew Power operations in elliptic cohomology and representations of loop groups. (English summary) **2001b:55016**
Cantwell, Brian J. Elliptic curves and three-dimensional flow patterns. (English summary) **2001d:76038**
Gordon, B. Brent (*with* Murre, Jacob P.) Chow motives of elliptic modular threefolds. (English summary) **2001a:14005**
Krichever, Igor Moiseevich Elliptic analog of the Toda lattice. **2001e:14033**
Kwon, Soonhak Degree of isogenies of elliptic curves with complex multiplication. (English summary) **2001a:11098**
Li, Huishi (*with* Van Oystaeyen, Freddy) ★A primer of algebraic geometry. (English summary) **2001d:14001**
Lipnitskiĭ, A. A. Two-torsion of Brauer groups of elliptic curves with good one-component reduction over the field of real formal power series. (Russian. English and Russian summaries) **2001g:14026**
Manin, Yuriĭ Ivanovich Sixth Painlevé equation, universal elliptic curve, and mirror of $\mathbf{P}^2$. (English summary) **2001b:14086**
Murre, Jacob P. *see* **Gordon, B. Brent, 2001a:14005**
Nakazato, Hiroshi Quintic elliptic curves arising in numerical range. (English summary) **2001d:11062**
Pierce, David Function fields and elementary equivalence. (English summary) **2001a:03080**
Shparlinski, Igor E. On the Naor-Reingold pseudo-random function from elliptic curves. (English summary) **2001m:65015**
Taniguchi, Tetsuya Non-isotropic harmonic tori in complex projective spaces and configurations of points on rational or elliptic curves. (English summary) **2001k:53129**
Tikhonov, S. V. Brauer groups of elliptic curves defined over the field of complex formal power series. (Russian. English and Russian summaries) **2001g:14027**
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Yamagishi, Hizuru A unified method of construction of elliptic curves with high Mordell-Weil rank. (English summary) **2001a:11092**

14H55 Riemann surfaces; Weierstrass points; gap sequences [see also 30Fxx]

Ballico, Edoardo (*with* Keem, C.; Kim, Seon Jeong) Weierstrass multiple points and ramification points of smooth projective curves. (English summary) **2001g:14054**
— (*with* Del Centina, A.) Ramification points of double coverings of curves and Weierstrass points. (English summary) **2001h:14038**
— Weierstrass points and Weierstrass pairs on singular plane curves. (English summary) **2001k:14062**
Bujalance, Emilio (*with* Costa, Antonio F.; Gamboa, J. M.; Riera, G.) Period matrices of Accola-Maclachlan and Kulkarni surfaces. (English summary) **2001i:14040**
Campillo, Antonio (*with* Farrán, José Ignacio) Computing Weierstrass semigroups and the Feng-Rao distance from singular plane models. (English summary) **2001a:14026**
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Esteves, Eduardo (*with* Medeiros, Nivaldo) Limits of Weierstrass points in regular smoothings of curves with two components. (English and French summaries) **2001k:14063**
Farrán, José Ignacio *see* **Campillo, Antonio, 2001a:14026**
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Hayakawa, Keizo On the family of Riemann surfaces of genus 3 defined by $x^4 + y^4 + z^4 + 2tx^2y^2 + ux^2z^2 + vy^2z^2 = 0$ related to Weierstrass points and automorphism groups. (English summary) **2001e:14030**
— A computation of the numbers of Weierstrass points of a family of Riemann surfaces defined by $x^4 + y^4 + z^4 + 2ax^2y^2 + 2bx^2z^2 + 2by^2z^2 = 0$. (English summary) **2001k:14064**
Karcher, Hermann (*with* Weber, Matthias[2]) The geometry of Klein's Riemann surface. (English summary) **2001a:14027**
Kato, Takao (*with* Kikuchi, Satoru) A remark on Towse's estimate on Weierstrass weights of points on the Fermat curve. **2001i:14041**
Keem, C. *see* **Ballico, Edoardo et al., 2001g:14054**
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Klein, Felix On the order-seven transformation of elliptic functions. **2001i:14042**
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Korotkin, Dmitriĭ A. Introduction to the functions on compact Riemann surfaces and theta-functions. (English summary) **2001f:14062**
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Pakovich, F. On trees that admit morphisms on hedgehogs or on chains. (Russian) **2001e:14031**
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Towse, Christopher Generalized Wronskians and Weierstrass weights. (English summary) **2001c:14055**
Watanabe, Kiyoshi Weierstrass points of the Fermat curve. **2001d:14033**
Weber, Matthias[2] *see* **Karcher, Hermann, 2001a:14027**

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Ballico, Edoardo (*with* Cossidente, Antonio) Osculating subspaces, normal rational curves and generalized strange curves. **2001m:14045**
Brambila-Paz, L. (*with* Muciño-Raymundo, Jesús) Geometry of Riemann surfaces and holomorphic linear bundles. (Spanish. Spanish summary) **2001g:30027**
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Cirre, F. J. *see* **Bujalance, Emilio et al., 2001k:30061**
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Costa, Antonio F. One example of 1-dimensional Hurwitz space. (*see* **2001h:00039**)
Farkas, Hershel M. (*with* Kra, Irwin) Special sets of points on compact Riemann surfaces. (English summary) **2001e:30082**
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González-Díez, G. (*with* Harvey, W. J.) Subvarieties of moduli space for Riemann surfaces. (English summary) **2001a:32019**
Gray, Jeremy J. From the history of a simple group. **2001a:14001**
Hain, Richard (*with* Reed, David L.) Geometric proofs of some results of Morita. **2001m:14041**
Harvey, W. J. *see* **González-Díez, G., 2001a:32019**
Ionesei, Gheorghe A gauge theoretic proof of the Abel-Jacobi theorem. (English summary) **2001b:30057**
Kaenders, Rainer H. The mixed Hodge structure on the fundamental group of a punctured Riemann surface. (English summary) **2001h:14003**
Kra, Irwin *see* **Farkas, Hershel M., 2001e:30082**
Macbeath, A. Murray Hurwitz groups and surfaces. (English summary) **2001c:14002**
Maskit, Bernard A new characterization of hyperellipticity. **2001e:30087**
Morifuji, Takayuki A remark on the η-invariant for automorphisms of hyperelliptic Riemann surfaces. (English summary) **2001i:58047**
Muciño-Raymundo, Jesús *see* **Brambila-Paz, L., 2001g:30027**
Patterson, S. J. Abel's theorem. **2001g:01026**
Reed, David L. *see* **Hain, Richard, 2001m:14041**
Song, Yongjin Ribbon category and mapping class groups. (English summary) **2001e:18009**
Steer, Brian *see* **Gantz, Christian, 2001c:14021**
Taniguchi, Tetsuya ★Non-isotropic harmonic tori in complex projective spaces and configurations of points on Riemann surfaces. **2001a:53104**
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14H60 Vector bundles on curves and their moduli [see also 14D20, 14F05]

Arapura, Donu (*with* Sastry, Pramathanath) Intermediate Jacobians and Hodge structures of moduli spaces. (English summary) **2001k:14065**
Balaji, V. (*with* Biswas, Indranil; del Baño Rollin, Sebastian) A Torelli type theorem for the moduli space of parabolic vector bundles over curves. (English summary) **2001j:14047**
Ballico, Edoardo Stable sheaves on reduced projective curves. (English summary) **2001a:14029**
— (*with* Ramella, Luciana) On the existence of curves in $\mathbf{P}^n$ with stable normal bundle. (English summary) **2001h:14039**
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14H70 Relationships with integrable systems

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Hurtubise, J. C. The geometry of generalised Hitchin systems. (English summary) **2001g:14057**
— (*with* Kjiri, M.) Separating coordinates for the generalized Hitchin systems and the classical r-matrices. (English summary) **2001f:14064**
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— Elliptic analog of the Toda lattice. **2001e:14033**
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Bochicchio, Marco Four-dimensional QCD and fiberwise duality. (English summary) **2001c:81227**
— The large N limit of QCD and the collective field of the Hitchin fibration. (English summary) **2001c:81228**
Braden, H. W. (*with* Marshakov, Andrei; Mironov, A. D.; Morozov, A. Yu.) On double-elliptic integrable systems. I. A duality argument for the case of SU(2). (English summary) **2001g:81097**
Brylinski, Jean-Luc (*with* Previato, Emma) Koszul complexes, differential operators, and the Weil-Tate reciprocity law. **2001k:14051**
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D'Hoker, Eric (*with* Phong, D. H.) Order parameters, free fermions, and conservation laws for Calogero-Moser systems. (English summary) **2001h:37125**
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— (*with* Novikov, Sergeĭ Petrovich) Holomorphic bundles and commuting difference operators. Two-term constructions. (Russian) **2001j:37127**
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14H81 Relationships with physics

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Donagi, Ron Y. Seiberg-Witten integrable systems. **2001b:14057**
Eguchi, Tohru Seiberg-Witten theory and S-duality. (English summary) **2001c:81196**
Ferrari, Franco (*with* Sobczyk, Jan) Bosonic field propagators on algebraic curves. (English summary) **2001g:81226**
Ito, Katsushi A-D-E singularity and the Seiberg-Witten theory. (English summary) **2001c:81200**
Looijenga, Eduard A minicourse on moduli of curves. (English summary) **2001k:14053**
Mayr, Peter Geometric construction of $N = 2$ gauge theories. (English summary) **2001b:81143**
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Takahashi, Atsushi Seiberg-Witten differential as a primitive form. (English summary) **2001m:14054**
Takhtajan, Leon A. Quantum field theories on an algebraic curve. (English summary) **2001m:81267**
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14H99 None of the above, but in this section

Dussaud, René Géométrie galoisienne. I. (French summary) [Galois geometry. I] (*see* **2001c:00012**)
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Cooper, David B. *see* **Tasdizen, Tolga et al., 2001b:94001**
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Geller, S. (*with* Maloo, Alok Kumar; Patil, D. P.; Roberts, Leslie G.) Kähler differentials of affine monomial curves. **2001e:14017**
Li, Huishi (*with* Van Oystaeyen, Freddy) ★ A primer of algebraic geometry. (English summary) **2001d:14001**
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Mignon, Thierry Courbes lisses sur les surfaces rationnelles génériques: un lemme d'Horace différentiel. [Smooth curves on generic rational surfaces: a differential Horace lemma] **2001m:14057**
Patil, D. P. *see* **Geller, S. et al., 2001e:14017**
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14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx.}

14J10 Families, moduli, classification: algebraic theory

Bădescu, Lucian ★ Algebraic surfaces. (English summary) **2001k:14068**
Barja, Miguel A. Lower bounds of the slope of fibred threefolds. (English summary) **2001j:14049**
Bedulev, Egor (*with* Viehweg, Eckart) On the Shafarevich conjecture for surfaces of general type over function fields. **2001f:14065**
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Karu, Kalle Minimal models and boundedness of stable varieties. **2001g:14059**
Kharlamov, Viatcheslav *see* **Degtyarëv, Aleksandr Igorevich, 2001b:14059**
Konno, Kazuhiro (*with* Mendes Lopes, Margarida) On a question of Miles Reid. (English summary) **2001h:14041**
(Maşek, Vladimir) *see* **Bădescu, Lucian, 2001k:14068**
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Allcock, Daniel (*with* Carlson, James A.; Toledo, Domingo) A complex hyperbolic structure for moduli of cubic surfaces. (English and French summaries) **2001h:14042**
Bauer, Ingrid C. The classification of surfaces in $\mathbf{P}^5$ having few trisecants. **2001d:14059**
Carlson, James A. *see* **Allcock, Daniel et al., 2001h:14042**
Cragnolini, Paolo (*with* Oliverio, P. A.) Lines on del Pezzo surfaces with $K_S^2 = 1$ in characteristic 2 in the smooth case. (English summary) **2001c:14057**
Fujino, Osamu Base point free theorem of Reid-Fukuda type. (English summary) **2001c:14013**
Grinenko, Mikhail On the birational rigidity of some pencils of del Pezzo surfaces. (English summary) **2001j:14012**
Hassett, Brendan Special cubic fourfolds. (English summary) **2001g:14066**
Hulek, Klaus (*with* Nieto, I.; Sankaran, G. K.) Heisenberg-invariant Kummer surfaces. (English summary) **2001e:14036**
Karu, Kalle *see* **Abramovich, Dan, 2001f:14021**
Lee, Yongnam A compactification of a family of determinantal Godeaux surfaces. (English summary) **2001b:14066**
— Bicanonical pencil of a determinantal Barlow surface. (English summary) **2001f:14075**
Migliore, Juan C. (*with* Nagel, Uwe; Peterson, Christopher S.) Constructing schemes with prescribed cohomology in arbitrary codimension. (English summary) **2001g:13028**
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Ogus, Arthur On the Hasse locus of a Calabi-Yau family. **2001m:14031**
Oliverio, P. A. *see* **Cragnolini, Paolo, 2001c:14057**
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Tutaj-Gasińska, Halszka *see* **Szemberg, Tomasz, 2001h:14071**
Zintl, Jörg Invariants of moduli spaces of abelian surfaces. **2001d:14047**

14J15 Moduli, classification: analytic theory; relations with modular forms [see also 32G13]

Allcock, Daniel (*with* Carlson, James A.; Toledo, Domingo) A complex hyperbolic structure for moduli of cubic surfaces. (English and French summaries) **2001h:14042**
Carlson, James A. *see* **Allcock, Daniel et al., 2001h:14042**
Manetti, Marco On the moduli space of diffeomorphic algebraic surfaces. (English summary) **2001j:14050**
Matsuzawa, Jun-ichi (*with* Omura, Akiko) Blow-ups of $\mathbf{P}^2$ and root systems of type D. **2001b:14060**
Omura, Akiko *see* **Matsuzawa, Jun-ichi, 2001b:14060**
Sasaki, Takeshi (*with* Yoshida, Masaaki) The uniformizing differential equation of the complex hyperbolic structure on the moduli space of marked cubic surfaces. (English summary) **2001a:14033**
Toledo, Domingo *see* **Allcock, Daniel et al., 2001h:14042**
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Barth, Wolf P. On the classification of $K3$ surfaces with nine cusps. (English summary) **2001d:14036**
Bryan, Jim (*with* Leung, Naichung Conan) Counting curves on irrational surfaces. (English summary) **2001i:14072**
Gritsenko, V. A. Elliptic genus of Calabi-Yau manifolds and Jacobi and Siegel modular forms. (English summary) **2001i:11051**
— (*with* Nikulin, Vyacheslav V.) The arithmetic mirror symmetry and Calabi-Yau manifolds. (English summary) **2001h:11051**
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14J20 Arithmetic ground fields [see also 11Dxx, 11G25, 11G35, 14Gxx]

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14J26 Rational and ruled surfaces

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Hermann, Carl Friedrich *see* **Freitag, Eberhard, 2001j:11023**
Hunt, Bruce Higher-dimensional ball quotients and the invariant quintic. (English summary) **2001g:32058**

14J40 n-folds ($n > 4$)

Bonavero, Laurent (*with* Takayama, Shigeharu) Some boundedness results for Fano-like Moishezon manifolds. (English summary) **2001d:14040**
Druel, Stéphane Variétés algébriques dont le fibré tangent est totalement décomposé. [Algebraic varieties whose tangent bundle is totally decomposed] **2001i:14054**
Kachi, Yasuyuki (*with* Sato, Eiichi) Characterizations of projective spaces and hyperquadrics. **2001e:14038**
Sato, Eiichi *see* **Kachi, Yasuyuki, 2001e:14038**
Sekiguchi, Jiro Cross ratio varieties for root systems. II. The case of the root system of type E_7. **2001i:14055**
Supino, Paola 3-folds of general type with $K^3 = 4p_g - 14$. (Italian summary) **2001j:14057**
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Kachi, Yasuyuki (*with* Kollár, János) Characterizations of $\mathbf{P}^n$ in arbitrary characteristic. **2001k:14016**
Kollár, János *see* **Kachi, Yasuyuki, 2001k:14016**
Landsberg, J. M. ★ Algebraic geometry and projective differential geometry. **2001i:14069**
Russo, Francesco On a theorem of Severi. **2001h:14070**

14J45 Fano varieties

Chel'tsov, I. A. Boundedness of Fano 3-folds of integer index. (Russian. Russian summary) **2001a:14044**
Clemens, Herb *see* **Ran, Ziv, 2001f:14080**
Demin, I. V. The degree of multidimensional ruled Fano varieties. (Russian. Russian summary)
Iliev, Atanas Iliev (*with* Schuhmann, Carmen) Tangent scrolls in prime Fano threefolds. (English summary) **2001h:14052**
Kollár, János (*with* Miyaoka, Yoichi; Mori, Shigefumi; Takagi, Hiromichi) Boundedness of canonical Q-Fano 3-folds. (English summary) **2001h:14053**
Miyaoka, Yoichi *see* **Kollár, János et al., 2001h:14053**
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Prokhorov, Yu. G. On the general elephant problem for three-dimensional Q-Fano fiber spaces over a surface. (Russian. English and Russian summaries) **2001e:14039**
Pukhlikov, Aleksandr V. A remark on the theorem of V. A. Iskovskikh and Yu. I. Manin on a three-dimensional quartic. (Russian) **2001d:14041**
— Birationally rigid double Fano hypersurfaces. (Russian. Russian summary) **2001h:14054**
Ran, Ziv (*with* Clemens, Herb) A new method in Fano geometry. **2001f:14080**
Schuhmann, Carmen *see* **Iliev, Atanas Iliev, 2001h:14052**
Shenderovskii, V. G. On computation of invariants of a certain Fano surface. **2001c:14061**
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Campana, Frédéric (*with* Peternell, Thomas) Recent developments in the classification theory of compact Kähler manifolds. (English summary) **2001h:32028**
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Corti, Alessio (*with* Pukhlikov, Aleksandr V.; Reid, Miles) Fano 3-fold hypersurfaces. (English summary) **2001k:14034**
— Singularities of linear systems and 3-fold birational geometry. **2001k:14041**
Costa, Laura Vector bundles on ruled Fano 3-folds. (English summary) **2001d:14044**
— *see also* **Arrondo, Enrique, 2001d:14043**
Gallego, F. J. (*with* Purnaprajna, B. P.) Vanishing theorems and syzygies for $K3$ surfaces and Fano varieties. (English summary) **2001f:14071**
Grinenko, Mikhail Birational correspondences of a double cone. **2001c:14028**
— On the birational rigidity of some pencils of del Pezzo surfaces. (English summary) **2001j:14012**
Hassett, Brendan Special cubic fourfolds. (English summary) **2001g:14066**
Hong, Jaehyun Fano manifolds with geometric structures modeled after homogeneous contact manifolds. (English summary) **2001m:53128**
Jinzenji, Masao Completion of the conjecture: quantum cohomology of Fano hypersurfaces. (English summary) **2001d:14064**
Kachi, Yasuyuki (*with* Sato, Eiichi) Characterizations of projective spaces and hyperquadrics. **2001e:14038**
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Kresch, Andrew Gromov-Witten invariants of a class of toric varieties. **2001i:14077**
Marchisio, Marina Rosanna Unirational quartic hypersurfaces. (Italian. English and Italian summaries) **2001h:14064**
Mella, Massimiliano On del Pezzo fibrations. (English summary) **2001d:14009**
Mezzetti, Emilia (*with* Portelli, Dario) On threefolds covered by lines. (English summary) **2001k:14074**
Nadel, Alan M. Multiplier ideal sheaves and Futaki's invariant. **2001a:32033**
Peternell, Thomas *see* **Campana, Frédéric, 2001h:32028**
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— Birationally rigid Fano fibrations. (Russian. Russian summary) **2001k:14032**
— *see also* **Corti, Alessio et al., 2001k:14034**
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Ranestad, Kristian (*with* Schreyer, Frank-Olaf) Varieties of sums of powers. (English summary) **2001m:14009**
Reid, Miles *see* **Corti, Alessio et al., 2001k:14034**
Sato, Eiichi *see* **Kachi, Yasuyuki, 2001e:14038**
Sato, Hiroshi[3] Toward the classification of higher-dimensional toric Fano varieties. (English summary) **2001i:14068**
Schreyer, Frank-Olaf *see* **Ranestad, Kristian, 2001m:14009**
Smith, Karen E. Globally F-regular varieties: applications to vanishing theorems for quotients of Fano varieties. **2001k:13007**
Sobolev, I. V. On the birational rigidity of a series of multidimensional Fano fibrations. (Russian. Russian summary) **2001j:14011**
Takayama, Shigeharu *see* **Bonavero, Laurent, 2001d:14040**

14J50 Automorphisms of surfaces and higher-dimensional varieties

Cai, Jin-Xing Bounds of automorphisms of surfaces of general type in positive characteristic. (English summary) **2001c:14062**
Keum, Jonghae (*with* Kondō, Shigeyuki) The automorphism groups of Kummer surfaces associated with the product of two elliptic curves. (English summary) **2001k:14075**
Kondō, Shigeyuki *see* **Keum, Jonghae, 2001k:14075**

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Aoki, Hisayo Étale endomorphisms of smooth affine surfaces. **2001g:14092**
Dolgachev, Igor V. (*with* Keum, Jonghae) Wild p-cyclic actions on $K3$-surfaces. **2001i:14049**
Keum, Jonghae *see* **Dolgachev, Igor V., 2001i:14049**
Kondō, Shigeyuki The maximum order of finite groups of automorphisms of $K3$ surfaces. (English summary) **2001d:14037**
Oguiso, K. (*with* Zhang, De-Qi) $K3$ surfaces with order five automorphisms. **2001a:14038**
Önsiper, Hurşit (*with* Sertöz, A. Sinan) On generalized Shioda-Inose structures. **2001f:14072**
Sertöz, A. Sinan *see* **Önsiper, Hurşit, 2001f:14072**
Zhang, De-Qi *see* **Oguiso, K., 2001a:14038**

14J60 Vector bundles on surfaces and higher-dimensional varieties, and their moduli [see also 14D20, 14F05, 32Lxx]

Abo, Hirotachi (*with* Decker, Wolfram; Sasakura, Nobuo) An elliptic conic bundle in $\mathbf{P}^4$ arising from a stable rank-3 vector bundle. **2001b:14071**
Ancona, Vincenzo (*with* Ottaviani, Giorgio) On the irreducible components of the moduli space of instanton bundles on $\mathbf{P}^5$. (English summary) **2001h:14055**
— Some applications of computer algebra to vector bundles on projective spaces. (English summary) (*see* **2001d:00048**)
Arrondo, Enrique (*with* Costa, Laura) Vector bundles on Fano 3-folds without intermediate cohomology. **2001d:14043**

Ballico, Edoardo (*with* Gasparim, Elizabeth) Holomorphic and algebraic vector bundles on 0-convex algebraic surfaces. (English summary) **2001g:14067**
— Rank 2 vector bundles in a neighborhood of an exceptional curve of a smooth surface. (English summary) **2001a:14045**
— (*with* Gasparim, Elizabeth) Vector bundles on a formal neighborhood of a curve in a surface. (English summary) **2001j:14058**
Bottacin, Francesco Poisson structures on moduli spaces of parabolic bundles on surfaces. (English summary) **2001k:14076**
Cascini, Paolo Weighted Tango bundles on $\mathbf{P}^n$ and their moduli spaces. (English summary) **2001k:14077**
Castellacci, Giuseppe Direct images of vector bundles on rational surfaces. (English summary) **2001f:14081**
Chang, Mei-Chu Some remarks on Buchsbaum bundles. (English summary) **2001f:14082**
Costa, Laura Vector bundles on ruled Fano 3-folds. (English summary) **2001d:14044**
— *see also* **Arrondo, Enrique, 2001d:14043**
Decker, Wolfram *see* **Abo, Hirotachi et al., 2001b:14071**
Druel, Stéphane Espace des modules des faisceaux de rang 2 semi-stables de classes de Chern $c_1 = 0$, $c_2 = 2$ et $c_3 = 0$ sur la cubique de $\mathbf{P}^4$. [Moduli space of semistable rank-2 bundles with Chern classes $c_1 = 0$, $c_2 = 2$ and $c_3 = 0$ on a cubic in $\mathbf{P}^4$] **2001i:14056**
Ellia, Ph. (*with* Hirschowitz, André; Manivel, Laurent) Problème de Brill-Noether pour les fibrés de Steiner. Applications aux courbes gauches. (English and French summaries) [Brill-Noether problem for Steiner bundles. Application to space curves] **2001g:14068**
Franco, Davide Curves in $\mathbf{P}^3$ with quasi-linear resolution. (English summary) **2001c:14063**
— On the generation of certain bundles of the projective space. (English summary) **2001f:14083**
Fukuma, Yoshiaki (*with* Ishihara, Hironobu) A generalization of curve genus for ample vector bundles. II. (English summary) **2001g:14069**
Gantz, Christian (*with* Steer, Brian) Stable parabolic bundles over elliptic surfaces and over Riemann surfaces. (English summary) **2001m:14061**
Gasparim, Elizabeth Chern classes of bundles on blown-up surfaces. (English summary) **2001g:14070**
— *see also* **Ballico, Edoardo, 2001g:14067** *and* **2001j:14058**
Hirschowitz, André *see* **Ellia, Ph. et al., 2001g:14068**
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Kumar, N. Mohan (*with* Rao, A. Prabhakar) Buchsbaum bundles on $\mathbf{P}^n$. (English summary) **2001g:14071**
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Madonna, C. A splitting criterion for rank 2 vector bundles on hypersurfaces in $\mathbf{P}^4$. (English summary) **2001m:14062**
Maeda, Takashi[1] Standard $\mathbf{P}^3$-bundles of exponent two on algebraic surfaces. (English summary) **2001c:14064**
Manivel, Laurent *see* **Ellia, Ph. et al., 2001g:14068**
Morgan, John W. Holomorphic bundles over elliptic manifolds. **2001k:14078**
Nakayama, Noboru Normalized tautological divisors of semi-stable vector bundles. (Japanese) **2001d:14045**
Ono, Tomoaki Vector bundles on a cubic surface whose restrictions to lines are rigid. (English summary) **2001c:14065**
Ottaviani, Giorgio *see* **Ancona, Vincenzo, 2001h:14055**
Peternell, Thomas (*with* Sommese, Andrew J.) Ample vector bundles and branched coverings. **2001k:14079**
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Sommese, Andrew J. *see* **Peternell, Thomas, 2001k:14079**
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Sumihiro, Hideyasu (*with* Tagami, Shigehiro) A splitting theorem for rank two vector bundles on projective spaces in positive characteristic. (English summary) **2001m:14063**
Tagami, Shigehiro *see* **Sumihiro, Hideyasu, 2001m:14063**
Tan, Sheng-Li (*with* Viehweg, Eckart) A note on the Cayley-Bacharach property for vector bundles. (English summary) **2001c:14066**
Vallès, Jean Fibrés de Schwarzenberger et coniques de droites sauteuses. (English and French summaries) [Schwarzenberger bundles and conics of jumping lines] **2001k:14080**
— Nombre maximal d'hyperplans instables pour un fibré de Steiner. (English and French summaries) [Maximal number of unstable hyperplanes for a Steiner bundle] **2001e:14040**
Viehweg, Eckart *see* **Tan, Sheng-Li, 2001c:14066**

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Abe, Takeshi A remark on the 2-dimensional moduli spaces of vector bundles on $K3$ surfaces. **2001j:14009**
Ballico, Edoardo The algebraic geometry and the deformation theory of the signed geodesics space. (English summary) **2001f:32020**
Berglund, Per (*with* Mayr, Peter) Stability of vector bundles from F-theory. (English summary) **2001e:14037**
Biswas, Indranil (*with* Holla, Yogish I.; Schumacher, Georg) On a characterization of finite vector bundles as vector bundles admitting a flat connection with finite monodromy group. (English summary) **2001b:32036**
Bottacin, Francesco A generalization of Higgs bundles to higher dimensional varieties. (English summary) **2001a:14012**
Buchdahl, Nicholas P. Blowups and gauge fields. (English summary) **2001m:32038**
Clemens, Herb *see* **Ran, Ziv, 2001f:14080**
Danila, Gentiana Sections du fibré déterminant sur l'espace de modules des faisceaux semi-stables de rang 2 sur le plan projectif. (English and French summaries) [Sections of the determinant bundle on the moduli space of semistable sheaves of rank 2 on the projective plane] **2001k:14028**
Dionisi, Carla Symplectic small deformations of special instanton bundle on $\mathbf{P}^{2n+1}$. (English summary) **2001f:14024**
Drézet, Jean-Marc Espaces abstraits de morphismes et mutations. [Abstract spaces of morphisms and mutations] **2001c:14023**
Gasparim, Elizabeth On the topology of holomorphic bundles. (English summary) **2001h:32030**
Gómez, Tomás L. (*with* Ramadas, T. R.) Parabolic bundles and representations of the fundamental group. (English summary) **2001i:14028**
Hartshorne, Robin (*with* Martin-Deschamps, Mireille; Perrin, Daniel) Construction de familles minimales de courbes gauches. (English summary) [Construction of minimal families of space curves] **2001g:14053**
Holla, Yogish I. *see* **Biswas, Indranil et al., 2001b:32036**
Iliev, Atanas Iliev (*with* Markushevich, D. G.) Quartic 3-fold: Pfaffians, vector bundles, and half-canonical curves. **2001k:14073**
Khesin, B. A. (*with* Roslyĭ, A. A.) Symplectic geometry on moduli spaces of holomorphic bundles over complex surfaces. (English summary) **2001f:53176**
Kumar, N. Mohan (*with* Peterson, Christopher S.; Rao, A. Prabhakar) Hilbert scheme components in characteristic 2. (English summary) **2001k:14010**
Lanteri, Antonio (*with* Mallavibarrena, Raquel) Higher order dual varieties of generically k-regular surfaces. (English summary) **2001f:14015**
— (*with* Maeda, Hidetoshi) Special varieties in adjunction theory and ample vector bundles. **2001k:14018**
Li, Wei-Ping (*with* Qin, Zhenbo) On blowup formulae for the S-duality conjecture of Vafa and Witten. II. The universal functions. **2001c:14026**
— (*with* Qin, Zhenbo) On blowup formulae for the S-duality conjecture of Vafa and Witten. **2001c:14025**
Maeda, Hidetoshi *see* **Lanteri, Antonio, 2001k:14018**
Mallavibarrena, Raquel *see* **Lanteri, Antonio, 2001f:14015**
Markushevich, D. G. (*with* Tikhomirov, Aleksandr S.) The Abel-Jacobi map of a moduli component of vector bundles on the cubic threefold. (English summary) **2001j:14055**
— *see also* **Iliev, Atanas Iliev, 2001k:14073**
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Matuschke, Andreas On framed instanton bundles and their deformations. (English summary) **2001f:14025**
Mayr, Peter *see* **Berglund, Per, 2001e:14037**
Migliore, Juan C. (*with* Nagel, Uwe; Peterson, Christopher S.) Constructing schemes with prescribed cohomology in arbitrary codimension. (English summary) **2001g:13028**
Nagel, Uwe *see* **Migliore, Juan C. et al., 2001g:13028**
Perrin, Daniel *see* **Hartshorne, Robin et al., 2001g:14053**
Peterson, Christopher S. *see* **Migliore, Juan C. et al., 2001g:13028** *and* **Kumar, N. Mohan et al., 2001k:14010**
Qin, Zhenbo *see* **Li, Wei-Ping, 2001c:14025** *and* **2001c:14026**
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Ran, Ziv (*with* Clemens, Herb) A new method in Fano geometry. **2001f:14080**
Rao, A. Prabhakar *see* **Kumar, N. Mohan et al., 2001k:14010**
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Schmitt, Alexander Walls for Gieseker semistability and the Mumford-Thaddeus principle for moduli spaces of sheaves over higher dimensional bases. (English summary) **2001g:14015**
Schumacher, Georg *see* **Biswas, Indranil et al., 2001b:32036**
Subramanian, Swaminathan On principal G_2 bundles. **2001j:14020**
Takahashi, Kazuyoshi Generalized adjunction of k-very ample vector bundles on algebraic surfaces. II. (English summary) **2001h:14073**
Thomas, R. P. Examples of bundles on Calabi-Yau 3-folds for string theory compactifications. **2001m:14060**
Tikhomirov, Aleksandr S. *see* **Markushevich, D. G., 2001j:14055**

14J70 Hypersurfaces

McCune, Timothy C. A generic cubic surface contains no involutive curve. (English summary) **2001k:14081**
Netsvetaev, N. Yu. On the homology of a perturbation of a complex projective hypersurface. (Russian. English and Russian summaries) **2001a:14046**

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Conte, Alberto (*with* Murre, Jacob P.) On a theorem of Morin on the unirationality of the quartic fivefold. (English and Italian summaries) **2001e:14052**
Demailly, Jean-Pierre (*with* El Goul, Jawher) Hyperbolicity of generic surfaces of high degree in projective 3-space. (English summary) **2001f:32045**
El Goul, Jawher *see* **Demailly, Jean-Pierre, 2001f:32045**
Jinzenji, Masao On the quantum cohomology rings of general type projective hypersurfaces and generalized mirror transformation. (English summary) **2001j:14073**
Joshi, Kirti Kodaira-Akizuki-Nakano vanishing: a variant. **2001d:14022**
Marchisio, Marina Rosanna Unirational quartic hypersurfaces. (Italian. English and Italian summaries) **2001h:14064**
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Netsvetaev, N. Yu. On the connected sum decomposition of complex hypersurfaces with quadratic singularities. (Russian. English and Russian summaries) **2001g:32067**
Tan, Sheng-Li Cayley-Bacharach property of an algebraic variety and Fujita's conjecture. **2001g:14009**

14J80 Topology of surfaces (Donaldson polynomials, Seiberg-Witten invariants)

Göttsche, Lothar Donaldson invariants in algebraic geometry. (English summary) **2001j:14059**

Items with secondary classifications in 14J80

Catanese, Fabrizio (*with* Manfredini, Sandro) The orbifold fundamental group of Persson-Noether-Horikawa surfaces. **2001g:14030**
— Fibred surfaces, varieties isogenous to a product and related moduli spaces. (English summary) **2001i:14048**
Endo, Hisaaki Meyer's signature cocycle and hyperelliptic fibrations. (English summary) **2001b:57047**
Li, Tian-Jun Symplectic Parshin-Arakelov inequality. **2001i:57038**

Li, Wei-Ping (*with* Qin, Zhenbo) On blowup formulae for the S-duality conjecture of Vafa and Witten. II. The universal functions. **2001c:14026**
— (*with* Qin, Zhenbo) On blowup formulae for the S-duality conjecture of Vafa and Witten. **2001c:14025**
Manfredini, Sandro *see* **Catanese, Fabrizio, 2001g:14030**
Mariño, Marcos (*with* Moore, Gregory W.; Peradze, Grigor) Superconformal invariance and the geography of four-manifolds. (English summary) **2001h:57037**
Moore, Gregory W. *see* **Mariño, Marcos et al., 2001h:57037**
Nicolaescu, Liviu I. ★ Notes on Seiberg-Witten theory. (English summary) **2001k:57037**
Okonek, Christian (*with* Teleman, Andrei) Recent developments in Seiberg-Witten theory and complex geometry. (English summary) **2001g:57063**
Park, B. Doug Exotic smooth structures on $3\mathbb{CP}^2\#n\overline{\mathbb{CP}}^2$. (English summary) **2001a:57046**
— Exotic smooth structures on $3\mathbb{CP}^2\#n\overline{\mathbb{CP}}^2$. II. (English summary) **2001a:57047**
Peradze, Grigor *see* **Mariño, Marcos et al., 2001h:57037**
Qin, Zhenbo *see* **Li, Wei-Ping, 2001c:14025** *and* **2001c:14026**
Sawon, Justin The Rozansky-Witten invariants of hyper-Kähler manifolds. (English summary) **2001e:58030**
Stipsicz, András I. Indecomposability of certain Lefschetz fibrations. (English summary) **2001h:57029**
Teleman, Andrei *see* **Okonek, Christian, 2001g:57063**

14J81 Relationships with physics

Belhaj, A. (*with* El Fallah, Ahmed; Saidi, El Hassane) On the affine $\hat{D}_4$ mirror geometry. (English summary) **2001b:14072**
Bonora, L. (*with* Reina, Cesare; Zampa, Alessandro) Enhanced gauge symmetries on elliptic $K3$. (English summary) **2001e:14041**
El Fallah, Ahmed *see* **Belhaj, A. et al., 2001b:14072**
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Zampa, Alessandro *see* **Bonora, L. et al., 2001e:14041**

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Aganagic, Mina (*with* Karch, Andreas; Lüst, Dieter; Miemiec, André) Mirror symmetries for brane configurations and branes at singularities. (English summary) **2001b:81088**
Andreas, Björn (*with* Curio, Gottfried) Horizontal and vertical five-branes in heterotic/F-theory duality. (English summary) **2001m:81203**
Arnowitt, R. (*with* Dutta, Bhaskar) Yukawa textures in Horava-Witten M-theory. (English summary) **2001k:81201**
Aspinwall, Paul S. (*with* Katz, Sheldon H.; Morrison, David R.) Lie groups, Calabi-Yau threefolds, and F-theory. (English summary) **2001k:81203**
Benkaddour, I. (*with* Bennai, M.; Diaf, E. Y.; Saidi, El Hassane) On matrix model compactification on non-commutative F_0 geometry. (English summary) **2001f:81201**
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Berglund, Per (*with* Mayr, Peter) Heterotic string/F-theory duality from mirror symmetry. (English summary) **2001a:81176**
— (*with* Mayr, Peter) Stability of vector bundles from F-theory. (English summary) **2001e:14037**
— (*with* Klemm, Albrecht; Mayr, Peter; Theisen, Stefan) On type IIB vacua with varying coupling constant. (English summary) **2001h:81180**
— (*with* Ellis, Jonathan Richard; Faraggi, Alon E.; Nanopoulos, D. V.; Qiu, Zongan) On elevating free-fermion $Z_2 \times Z_2$ orbifolds models to compactifications of F theory. (English summary) **2001c:81139**
Billó, Marco (*with* Denef, Frederik; Fré, Pietro; Pesando, Igor; Troost, Walter; Van Proeyen, Antoine; Zanon, Daniela) Special geometry of Calabi-Yau compactifications near a rigid limit. (English summary) **2001a:53072**
Curio, Gottfried *see* **Andreas, Björn, 2001m:81203**
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Diaconescu, Duiliu-Emanuel (*with* Rajesh, Govindan) Geometrical aspects of fivebranes in heterotic/F-theory duality in four dimensions. (English summary) **2001a:81183**
— (*with* Römelsberger, Christian) D-branes and bundles on elliptic fibrations. (English summary) **2001g:81195**
Diaf, E. Y. *see* **Benkaddour, I. et al., 2001f:81201**
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Donagi, Ron Y. (*with* Ovrut, Burt A.; Waldram, Daniel) Moduli spaces of fivebranes on elliptic Calabi-Yau threefolds. (English summary) **2001g:81198**
— (*with* Ovrut, Burt A.; Pantev, Tony; Waldram, Daniel) Non-perturbative vacua in heterotic M-theory. (English summary) **2001a:81282**
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Greene, Brian R. Mirror symmetry: a brief review of the first 10 years. (English summary) **2001h:14050**
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Haack, Michael (*with* Louis, Jan) Duality in heterotic vacua with four supercharges. (English summary) **2001i:81211**
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Hashiba, Jiro (*with* Hosomichi, Kazuo; Terashima, Seiji) String junctions in B-field background. (English summary) **2001h:81198**
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Kakushadze, Zurab Non-perturbative $K3$ orientifolds with NS-NS B-flux. (English summary) **2001a:81197**
— Type I on (generalized) Voisin-Borcea orbifolds and nonperturbative orientifolds. (English summary) **2001i:81220**
Karch, Andreas *see* **Aganagic, Mina et al., 2001b:81088**
Katz, Sheldon H. *see* **Aspinwall, Paul S. et al., 2001k:81203**
Kiritsis, Elias (*with* Obers, Niels A.; Pioline, Boris) Heterotic/type-II triality and instantons on K_3. (English summary) **2001f:81151**
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Lukas, André (*with* Ovrut, Burt A.) Symmetric vacua in heterotic M theory. (English summary) **2001k:81242**
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Mayr, Peter Non-perturbative $\mathcal{N} = 1$ strings from geometric singularities. (English summary) **2001e:81114**
— *see also* **Berglund, Per et al., 2001a:81176; 2001c:14037** *and* **2001h:81180**
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Pantev, Tony *see* **Donagi, Ron Y. et al., 2001a:81282** *and* **Ovrut, Burt A. et al., 2001j:81189**
Park, Inyong Y. (*with* von Unge, Rikard) Hyperkähler quotients, mirror symmetry, and F-theory. (English summary) **2001i:81235**
Park, Jaemo *see* **Ovrut, Burt A. et al., 2001j:81189**
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Sarkar, Tapobrata *see* **Govindarajan, Suresh et al., 2001h:81197** *and* **2001m:81225**
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Scheidegger, Emanuel D-branes on some one- and two-parameter Calabi-Yau hypersurfaces. (English summary) **2001i:81236**
Shiu, Gary *see* **Greene, Brian R. et al., 2001j:81167**
Spaliński, Michał (*with* Taylor, Tomasz R.) Branes and fluxes in $D = 5$ Calabi-Yau compactifications of M-theory. (English summary) **2001d:81086**
Taylor, Tomasz R. *see* **Spaliński, Michał, 2001d:81086**
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Theisen, Stefan *see* **Berglund, Per et al., 2001h:81180**
Thomas, R. P. Examples of bundles on Calabi-Yau 3-folds for string theory compactifications. **2001m:14060**
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Yamada, Yasuhiko (*with* Yang, Sung-Kil) Affine 7-brane backgrounds and five-dimensional E_N theories on S^1. (English summary) **2001c:81175**
Yang, Sung-Kil *see* **Yamada, Yasuhiko, 2001c:81175**
Zanon, Daniela *see* **Billó, Marco et al., 2001a:53072**

14J99 None of the above, but in this section

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Chistov, A. L. Efficient smooth stratification of an algebraic variety of characteristic zero and its applications. (Russian. English and Russian summaries) **2001g:14072**
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Kwak, Sijong Generic projections, the equations defining projective varieties and Castelnuovo regularity. (English summary) **2001e:14042**
Schröer, Stefan On non-projective normal surfaces. (English summary) **2001c:14067**

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Estes, Dennis R. (*with* Waid, C. Carter) An algebraic analysis of bore hole samples. (English summary) **2001d:86019**
Gizatullin, M. Kh. The Vavilov-Cherenkov radiation and plane quartics. (Russian) **2001f:78019**
Hironaka, Eriko Plumbing graphs for normal surface-curve pairs. (English summary) **2001i:57006**
Palleschi, Marino (*with* Turrini, Cristina) On polarized surfaces with a small generalized class. **2001d:14010**

Peternell, Thomas (*with* Schneider, Michael Hellmut; Sommese, Andrew J.) Kodaira dimension of subvarieties. **2001e:14016**
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Sommese, Andrew J. *see* **Peternell, Thomas et al., 2001e:14016**
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14Kxx Abelian varieties and schemes

Items with secondary classifications in 14Kxx

(Faber, Carel) *see* **Moduli of abelian varieties, 2001j:14002**
(van der Geer, Gerard) *see* **Moduli of abelian varieties, 2001j:14002**
(Oort, Frans) *see* **Moduli of abelian varieties, 2001j:14002**

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Moduli of abelian varieties ★ Moduli of abelian varieties. **2001j:14002**
Progress in Mathematics ★ Moduli of abelian varieties. **2001j:14002**
Texel Island ★ Moduli of abelian varieties. **2001j:14002**

14K02 Isogeny

van Wamelen, Paul Poonen's question concerning isogenies between Smart's genus 2 curves. (English summary) **2001a:14047**

Items with secondary classifications in 14K02

DiPippo, Stephen A. (*with* Howe, Everett W.) Corrigendum: "Real polynomials with all roots on the unit circle and abelian varieties over finite fields" [J. Number Theory **73** (1998), no. 2, 426–450; MR 2000c:11101]. **Donagi, Ron Y.** (*with* Livné, Ron) The arithmetic-geometric mean and isogenies for curves of higher genus. (English summary) **2001a:14022**
Gusić, Ivica On isogenies of elliptic curves. (English summary) **2001k:11097**
Howe, Everett W. *see* **DiPippo, Stephen A.**
Livné, Ron *see* **Donagi, Ron Y., 2001a:14022**
Polishchuk, Alexander Determinant bundles for abelian schemes. (English summary) **2001b:14073**

14K05 Algebraic theory

Hacon, Christopher D. Divisors on principally polarized abelian varieties. (English summary) **2001c:14068**
Murre, Jacob P. Algebraic cycles on abelian varieties: application of abstract Fourier theory. (English summary) **2001f:14085**
Pareschi, Giuseppe Syzygies of abelian varieties. **2001f:14086**
Polishchuk, Alexander Determinant bundles for abelian schemes. (English summary) **2001b:14073**
Shim, Kyung Ah (*with* Woo, Sung Sik) Néron symbol on K-holomorphic torus. (English summary) **2001k:14082**
Talamanca, Valerio A note on height pairings on polarized abelian varieties. (English and Italian summaries) **2001b:14074**
Woo, Sung Sik *see* **Shim, Kyung Ah, 2001k:14082**

Items with secondary classifications in 14K05

Fukuma, Yoshiaki A note on tensor products of ample line bundles on abelian varieties. (English summary) **2001b:14013**
Hidalgo-Solís, Laura (*with* Recillas-Pishmish, Sevin) The hyperelliptic fibre of the Prym map in genus four. (English summary) **2001b:14049**
Kajiwara, Takeshi Abelian surfaces in toric 4-folds. (English summary) (*see* **2001m:00016**)
Marini, Giambattista A geometrical argument for a theorem of G. E. Welters. **2001c:14052**
Mazur, Barry C. Abelian varieties and the Mordell-Lang conjecture. (English summary) **2001e:11061**
Mironov, A. E. Commutative rings of differential operators associated with two-dimensional abelian varieties. (Russian. Russian summary) **2001m:37151**
Noguchi, Junjiro (*with* Winkelmann, Jörg; Yamanoi, Katsutoshi) The value distribution of holomorphic curves into semi-abelian varieties. (English and French summaries) **2001j:32015**
Recillas-Pishmish, Sevin *see* **Hidalgo-Solís, Laura, 2001b:14049**
Winkelmann, Jörg *see* **Noguchi, Junjiro et al., 2001j:32015**
Yamanoi, Katsutoshi *see* **Noguchi, Junjiro et al., 2001j:32015**

14K10 Algebraic moduli, classification [see also 11G15]

Galluzzi, Federica A geometric description of Hazama's exceptional classes. (Italian summary) **2001i:14057**
van der Geer, Gerard (*with* Oort, Frans) Moduli of abelian varieties: a short introduction and survey. (English summary) **2001a:14048**
Hulek, Klaus (*with* Nieto, I.; Sankaran, G. K.) Degenerations of (1, 3) abelian surfaces and Kummer surfaces. (English summary) **2001c:14069**
— Nef divisors on moduli spaces of abelian varieties. 2001d:14046
Murabayashi, Naoki (*with* Umegaki, Atsuki) Determination of all Q-rational CM-points in the moduli space of principally polarized abelian surfaces. (Japanese) (*see* **2001f:11003**)
Nieto, I. *see* **Hulek, Klaus et al., 2001c:14069**
Oort, Frans A stratification of a moduli space of polarized abelian varieties in positive characteristic. (English summary) **2001m:14065**
— *see also* van der Geer, Gerard, 2001a:14048
Sankaran, G. K. *see* **Hulek, Klaus et al., 2001c:14069**
Umegaki, Atsuki *see* **Murabayashi, Naoki, (2001f:11003)**
Zintl, Jörg Invariants of moduli spaces of abelian surfaces. **2001d:14047**

Items with secondary classifications in 14K10

Bueken, Peter (*with* Vanhaecke, Pol) The moduli problem for integrable systems: the example of a geodesic flow on SO(4). (English summary) **2001i:14045**
Chai, Ching-Li Newton polygons as lattice points. (English summary) **2001k:11110**
van der Geer, Gerard Cycles on the moduli space of abelian varieties. (English summary) **2001b:14009**
Hulek, Klaus (*with* Nieto, I.; Sankaran, G. K.) Heisenberg-invariant Kummer surfaces. (English summary) **2001e:14036**
Manoharmayum, J. Abelian surfaces with level $\sqrt{5}$ structure. **2001i:11069**
Nieto, I. *see* **Hulek, Klaus et al., 2001e:14036**
Noot, Rutger Abelian varieties with l-adic Galois representation of Mumford's type. (English summary) **2001k:11112**
Philippon, Patrice *see* **Sinnou, David, 2001k:11119**
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Sinnou, David (*with* Philippon, Patrice) Errata: "Lower bounds for the normalized heights of toric subvarieties" [Ann. Scuola Norm. Sup. Pisa Cl. Sci. (4) **28** (1999), no. 3, 489–543; MR 2001a:11109]. (French) **2001k:11119**
Vanhaecke, Pol *see* **Bueken, Peter, 2001i:14045**

14K12 Subvarieties

Items with secondary classifications in 14K12

Abdulali, Salman Filtrations on the cohomology of abelian varieties. **2001d:14011**
Mok, Ngaiming Fibrations of compact Kähler manifolds in terms of cohomological properties of their fundamental groups. (English and French summaries) **2001k:32035**
Rémond, Gaël Inégalité de Vojta en dimension supérieure. (English and French summaries) [Higher-dimensional Vojta inequality] **2001i:11070**

14K15 Arithmetic ground fields [see also 11Dxx, 11Fxx, 11Gxx, 14Gxx]

Coleman, Robert F. The monodromy pairing. **2001k:14083**
David, Chantal Characteristic polynomials of abelian varieties over $\mathbf{F}_p$. (English and French summaries) **2001e:14043**
David, Sinnou (*with* Philippon, Patrice) Sous-variétés de torsion des variétés semi-abéliennes. (English and French summaries) [Torsion subvarieties of semi-abelian varieties] **2001k:14084**
Philippon, Patrice *see* **David, Sinnou, 2001k:14084**
Silverberg, Alice (*with* Zarkhin, Yu. G.) Reduction of abelian varieties. **2001g:14073**
Zarkhin, Yu. G. *see* **Silverberg, Alice, 2001g:14073**

Items with secondary classifications in 14K15

Blasius, Don (*with* Borovoi, Mikhail) On period torsors. (English summary) **2001c:11060**
Borovoi, Mikhail *see* **Blasius, Don, 2001c:11060**
Breuil, Christophe Intégration sur les variétés p-adiques (d'après Coleman, Colmez). (French summary) [Integration on p-adic manifolds (following Coleman and Colmez)] **2001m:11103**
Coates, J. H. (*with* Sujatha, Ramdorai) Euler-Poincaré characteristics of abelian varieties. (English and French summaries) **2001g:11090**
(Coleman, Robert F.) *see* **Breuil, Christophe, 2001m:11103**
(Colmez, Pierre) *see* **Breuil, Christophe, 2001m:11103**
David, Sinnou (*with* Hindry, Marc) Minoration de la hauteur de Néron-Tate sur les variétés abéliennes de type C. M. (English summary) [Lower bound for the Néron-Tate height on abelian varieties of CM type] **2001j:11054**
Harris, Michael Correction to: "p-adic representations arising from descent on abelian varieties" [Compositio Math. **39** (1979), no. 2, 177–245; MR 80j:14035]. **2001b:11050**
Hindry, Marc *see* **David, Sinnou, 2001j:11054**
Hrushovski, Ehud (*with* Pillay, Anand) Effective bounds for the number of transcendental points on subvarieties of semi-abelian varieties. (English summary) **2001d:11078**
Kim, Minhyong (*with* Marshall, Susan H.) Crystalline subrepresentations and Néron models. (English summary) **2001k:11240**
Koya, Yoshihiro On a duality theorem of abelian varieties over higher dimensional local fields. (English summary) **2001k:11109**
Kunyavskiĭ, Boris È. (*with* Sansuc, Jean-Jacques) Réduction des groupes algébriques commutatifs. (English and French summaries) [Reduction of commutative algebraic groups] **2001m:14067**
Liu, Qing[1] (*with* Lorenzini, Dino) Special fibers of Néron models and wild ramification. **2001m:11094**
Lorenzini, Dino *see* **Liu, Qing[1], 2001m:11094**
Manoharmayum, J. Abelian surfaces with level $\sqrt{5}$ structure. **2001i:11069**
Marshall, Susan H. *see* **Kim, Minhyong, 2001k:11240**
Moriwaki, Atsushi Arithmetic height functions over finitely generated fields. (English summary) **2001g:11104**
Murabayashi, Naoki A remark on the modularity of abelian varieties of GL_2-type over Q. (English summary) **2001c:11065**
Oort, Frans A stratification of a moduli space of polarized abelian varieties in positive characteristic. (English summary) **2001m:14065**
Pillay, Anand *see* **Hrushovski, Ehud, 2001d:11078**
Quer, Jordi Q-curves and abelian varieties of GL_2-type. **2001j:11040**
Rémond, Gaël Inégalité de Vojta en dimension supérieure. (English summary) [Vojta inequality in higher dimension] **2001g:11123**
Sansuc, Jean-Jacques *see* **Kunyavskiĭ, Boris È., 2001m:14067**
Shim, Kyung Ah (*with* Woo, Sung Sik) p-adic heights. (English summary) **2001h:11082**
Sujatha, Ramdorai *see* **Coates, J. H., 2001g:11090**
Totaro, Burt The topology of smooth divisors and the arithmetic of abelian varieties. **2001i:14012**
Wong, Siman Power residues on abelian varieties. (English summary) **2001m:11095**

Woo, Sung Sik *see* **Shim, Kyung Ah, 2001h:11082**
Zhang, Shou-Wu Distribution of almost division points. **2001e:11063**

14K20 Analytic theory; abelian integrals and differentials

Abe, Yukitaka Meromorphic functions admitting an algebraic addition theorem. **2001d:14048**
Birkenhake, Christina (*with* Lange, Herbert) ★ Complex tori. (English summary) **2001k:14085**
Bukhshtaber, V. M. (*with* Leĭkin, D. V.; Ènol'skiĭ, V. Z.) σ-functions of (n, s)-curves. (Russian) **2001j:14060**
Ènol'skiĭ, V. Z. *see* **Bukhshtaber, V. M. et al., 2001j:14060**
Lange, Herbert *see* **Birkenhake, Christina, 2001k:14085**
Leĭkin, D. V. *see* **Bukhshtaber, V. M. et al., 2001j:14060**

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Progress in Mathematics *see* **Birkenhake, Christina, 2001k:14085**

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Bertapelle, Alessandra Formal Néron models and Weil restriction. **2001g:14038**
Debarre, Olivier ★ Tores et variétés abéliennes complexes. (French. English and French summaries) [Complex tori and abelian varieties] **2001f:14001**
Dubrovin, Boris Differential geometry of moduli spaces and its applications to soliton equations and to topological conformal field theory. (English summary) **2001f:53183**
van Geemen, Bert Kuga-Satake varieties and the Hodge conjecture. **2001h:14002**
Kobayashi, Ryoichi Holomorphic curves in abelian varieties: the second main theorem and applications. **2001k:32031**

14K22 Complex multiplication [see also 11G15]

Galluzzi, Federica Corestriction of central simple algebras and families of Mumford-type. (English and Italian summaries) **2001e:14044**
Hazama, Fumio On the existence of N-dominated abelian varieties of CM-type. (English summary) **2001i:14058**
— Hodge cycles on abelian varieties of S_n-type. (English summary) **2001g:14074**
Murabayashi, Naoki (*with* Umegaki, Atsuki) Determination of all Q-rational CM-points in the moduli space of principally polarized abelian surfaces. (English summary) **2001m:14066**
Umegaki, Atsuki *see* **Murabayashi, Naoki, 2001m:14066**

Items with secondary classifications in 14K22

Ably, Mohammed Formes linéaires de logarithmes de points algébriques sur une courbe elliptique de type CM. (English and French summaries) [Linear forms in logarithms of algebraic points over an elliptic curve of CM type] **2001g:11119**
Aoki, Noboru Some remarks on the Hodge conjecture for abelian varieties of Fermat type. **2001k:14021**
Murty, Vijaya Kumar Hodge and Weil classes on abelian varieties. **2001d:14013**
Quer, Jordi Q-curves and abelian varieties of GL_2-type. **2001j:11040**
Tankeev, S. G. Cycles of small codimension on a simple $2p$- or $4p$-dimensional abelian variety. (Russian. Russian summary) **2001e:11062**
Wortmann, S. Generalized Q-curves and factors of $J_1(N)$. **2001m:11092**

14K25 Theta functions [see also 14H42]

Items with secondary classifications in 14K25

Alexeev, Valery (*with* Nakamura, Iku) On Mumford's construction of degenerating abelian varieties. (English summary) **2001g:14013**
Debarre, Olivier ★ Tores et variétés abéliennes complexes. (French. English and French summaries) [Complex tori and abelian varieties] **2001f:14001**
Hulek, Klaus (*with* Nieto, I.; Sankaran, G. K.) Degenerations of (1, 3) abelian surfaces and Kummer surfaces. (English summary) **2001c:14069**
— Nef divisors on moduli spaces of abelian varieties. **2001d:14046**
Hurtubise, J. C. (*with* Kjiri, M.) Separating coordinates for the generalized Hitchin systems and the classical r-matrices. (English summary) **2001f:14064**
Kjiri, M. *see* **Hurtubise, J. C., 2001f:14064**
Krichever, Igor Moiseevich Elliptic analog of the Toda lattice. **2001e:14033**
Loi, Andrea The function epsilon for complex tori and Riemann surfaces. (English summary) **2001k:53173**
Marshakov, Andrei Duality in integrable systems and generating functions for new Hamiltonians. (English summary) **2001h:81104**
Mukherjee, Samir Kumar The theta-functions. (English summary) **2001h:11052**
Nakamura, Iku *see* **Alexeev, Valery, 2001g:14013**
Nieto, I. *see* **Hulek, Klaus et al., 2001c:14069**
Polishchuk, Alexander Determinant bundles for abelian schemes. (English summary) **2001b:14073**
Sankaran, G. K. *see* **Hulek, Klaus et al., 2001c:14069**
Schork, Matthias On coalescence of fermions on Riemann surfaces. (English summary) **2001f:81180**
Yoshikawa, Ken-ichi Discriminant of theta divisors and Quillen metrics. (English summary) **2001g:58058**

14K30 Picard schemes, higher Jacobians [see also 14H40, 32G20]

Items with secondary classifications in 14K30

Arapura, Donu (*with* Sastry, Pramathanath) Intermediate Jacobians and Hodge structures of moduli spaces. (English summary) **2001k:14065**
Birkenhake, Christina (*with* Lange, Herbert) ★ Complex tori. (English summary) **2001k:14085**
Druel, Stéphane Espace des modules des faisceaux de rang 2 semi-stables de classes de Chern $c_1 = 0$, $c_2 = 2$ et $c_3 = 0$ sur la cubique de $\mathbf{P}^4$. [Moduli space of semistable rank-2 bundles with Chern classes $c_1 = 0$, $c_2 = 2$ and $c_3 = 0$ on a cubic in $\mathbf{P}^4$] **2001i:14056**
Hartl, Urs T. (*with* Lütkebohmert, Werner) On rigid-analytic Picard varieties. **2001m:14036**
Iliev, Atanas Iliev (*with* Markushevich, D. G.) Quartic 3-fold: Pfaffians, vector bundles, and half-canonical curves. **2001k:14073**
Lange, Herbert *see* **Birkenhake, Christina, 2001k:14085**
Lütkebohmert, Werner *see* **Hartl, Urs T., 2001m:14036**
Markushevich, D. G. *see* **Iliev, Atanas Iliev, 2001k:14073**
Ramachandran, Niranjan From Jacobians to one-motives: exposition of a conjecture of Deligne. (English summary) **2001k:14022**
Rubei, Elena Lazzeri's Jacobian of oriented compact Riemannian manifolds. (English summary) **2001k:32036**
Sastry, Pramathanath *see* **Arapura, Donu, 2001k:14065**
Voisin, Claire The Griffiths group of a general Calabi-Yau threefold is not finitely generated. **2001a:14010**

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Progress in Mathematics *see* **Birkenhake, Christina, 2001k:14085**

14K99 None of the above, but in this section

Items with secondary classifications in 14K99

Fedorov, Yu. N. Discrete versions of some algebraic integrable systems related to generalized Jacobians. (English summary) **2001h:37126**
Lee, Min Ho[1] (*with* Suh, Dong Youp) Torus bundles over locally symmetric varieties associated to cocycles of discrete groups. (English summary) **2001c:14049**
Levin, Andrei Mikhailovich Polylogarithmic currents on abelian varieties. (English summary) **2001d:11074**
Rullgård, Hans Stratification des espaces de polynômes de Laurent et la structure de leurs amibes. (English and French summaries) [Stratification of spaces of Laurent polynomials and the structure of their amoebas] **2001h:32044**
Suh, Dong Youp *see* **Lee, Min Ho[1], 2001c:14049**
Umeno, Takashi Complex line bundles on toroidal groups. (English summary) **2001h:32033**

14Lxx Algebraic groups {For linear algebraic groups, see 20Gxx; for Lie algebras, see 17B45.}

14L05 Formal groups, p-divisible groups [see also 55N22]

Demchenko, O. V. Formal Honda groups: the arithmetic of the group of points. (Russian. Russian summary) **2001e:14045**
González, Jesús[2] Arithmetical properties of $[p^k]$-series associated to p-typical formal group laws and applications. (English summary) **2001k:14086**
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Childs, Lindsay N. ★ Taming wild extensions: Hopf algebras and local Galois module theory. (English summary) **2001e:11116**
Conrad, Brian Finite group schemes over bases with low ramification. (English summary) **2001c:14071**
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14L10 Group varieties

Cortella, Anne (*with* Kunyavskiĭ, Boris È.) Rationality problem for generic tori in simple groups. (English summary) **2001c:14070**
Kowalski, Piotr[2] (*with* Pillay, Anand) Pro-algebraic and differential algebraic group structures on affine spaces. (English summary) **2001d:14049**
Kunyavskiĭ, Boris È. *see* **Cortella, Anne, 2001c:14070**
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14L15 Group schemes

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Breuil, Christophe Groupes p-divisibles, groupes finis et modules filtrés. (French summary) [p-divisible groups, finite groups and filtered modules] **2001k:14087**
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Ohno, Toshiaki Some cases of extensions of twisted group schemes over a discrete valuation ring. **2001d:14050**
Pianzola, A. Un groupe unipotent universel. (English and French summaries) [A universal unipotent group] **2001m:14068**
Sansuc, Jean-Jacques *see* **Kunyavskiĭ, Boris È., 2001m:14067**
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Farnsteiner, Rolf On the Auslander-Reiten quiver of an infinitesimal group. (English summary) **2001k:16027**
Gan, Wee Teck (*with* Yu, Jiu-Kang) Group schemes and local densities. **2001m:11060**
Muñoz Porras, J. M. (*with* Plaza-Martín, Francisco J.) Equations of the moduli of pointed curves in the infinite Grassmannian. (English summary) **2001a:14032**
Nitsure, Nitin A "universal" torsor for a finite group. (English summary) **2001m:14072**
Pianzola, A. Line bundles and conjugacy theorems for toroidal Lie algebras. (English and French summaries) **2001d:17004**
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Yu, Jiu-Kang *see* **Gan, Wee Teck, 2001m:11060**

14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

Penniston, David Unipotent groups associated to reduced curves. (English summary) **2001b:14077**

Items with secondary classifications in 14L17

Kowalski, Piotr² (*with* Pillay, Anand) Pro-algebraic and differential algebraic group structures on affine spaces. (English summary) **2001d:14049**
Penniston, David Unipotent groups and curves of genus two. (English summary) **2001b:14050**
Pillay, Anand *see* **Kowalski, Piotr², 2001d:14049**

14L24 Geometric invariant theory [see also 13A50]

A'Campo-Neuen, Annette (*with* Hausen, Jürgen) Examples and counterexamples for existence of categorical quotients. (English summary) **2001g:14076**
Hausen, Jürgen *see* **A'Campo-Neuen, Annette, 2001g:14076**
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Sury, B. An elementary proof of the Hilbert-Mumford criterion. (English summary) **2001d:14051**
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Berenstein, Arkady (*with* Sjamaar, Reyer) Coadjoint orbits, moment polytopes, and the Hilbert-Mumford criterion. **2001a:53121**
Fulton, William Eigenvalues, invariant factors, highest weights, and Schubert calculus. (English summary) **2001g:15023**
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Lange, Herbert *see* **Avritzer, Dan, 2001k:14026**
Le Bruyn, Lieven Optimal filtrations on representations of finite-dimensional algebras. (English summary) **2001c:16025**
Luo, Huazhang Geometric criterion for Gieseker-Mumford stability of polarized manifolds. **2001b:32035**
Mironov, A. E. *see* **Anan'in, A. Z., 2001i:14018**
Nakajima, Haruhisa Relative equidimensionality and stability of actions of a reductive algebraic group. (English summary) **2001g:14078**
Nitsure, Nitin Moduli of regular holonomic $\mathcal{D}$-modules with normal crossing singularities. **2001e:14018**
Panyushev, D. I. Actions of "nilpotent tori" on G-varieties. **2001m:14073**
Popov, V. L. *see* **Katsylo, P. I., 2001c:14072**
Ressayre, N. The GIT-equivalence for G-line bundles. (English summary) **2001e:14047**
Sekiguchi, Jiro Cross ratio varieties for root systems. II. The case of the root system of type E_7. **2001i:14055**
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Zubkov, A. N. Invariants of an adjoint action of classical groups. (Russian. Russian summary) **2001f:13010**
Zwara, Grzegorz Tame algebras and degenerations of modules. **2001k:16025**

14L30 Group actions on varieties or schemes (quotients) [see also 13A50, 14L24]

Arzhantsev, I. V. On the stability of subgroup actions on certain quasihomogeneous G-varieties. (English summary) **2001i:14060**
Basili, Roberta On the irreducibility of varieties of commuting matrices. (English summary) **2001d:14052**
Deveney, James K. (*with* Finston, David R.) Twin triangular derivations. **2001f:14088**
— (*with* Finston, David R.) Sliced $\mathbf{G}_a$ actions. (English summary) **2001m:14070**
Đoković, Dragomir Ž. The closure diagrams for nilpotent orbits of real forms of F_4 and G_2. (English summary) **2001i:14061**
Edidin, Dan (*with* Graham, William A.) Good representations and solvable groups. **2001j:14061**
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Horvath, Jozsef (*with* Howe, Roger E.) The natural representation of the stabilizer of four subspaces. (English summary) **2001f:14090**
Howe, Roger E. *see* **Horvath, Jozsef, 2001f:14090**
Katsylo, P. I. (*with* Popov, V. L.) On fixed points of algebraic actions on $\mathbf{C}^n$. (Russian. Russian summary) **2001c:14072**
Kebekus, Stefan On the classification of 3-dimensional $\mathrm{SL}_2(\mathbf{C})$-varieties. (English summary) **2001c:14073**
(Kollár, János) *see* **Reichstein, Zinovy, 2001k:14088**
Kordonskiĭ, V. È. Stable rationality of the group Spin_{10}. (Russian) **2001d:14053**
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Nakajima, Haruhisa Relative equidimensionality and stability of actions of a reductive algebraic group. (English summary) **2001g:14078**
— Presentations of torus invariants in paralleled linear hulls and their applications. (English summary)
Nitsure, Nitin A "universal" torsor for a finite group. (English summary) **2001m:14072**
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Panyushev, D. I. Actions of "nilpotent tori" on G-varieties. **2001m:14073**
Popov, V. L. *see* **Katsylo, P. I., 2001c:14072**
Reichstein, Zinovy (*with* Youssin, Boris) Essential dimensions of algebraic groups and a resolution theorem for G-varieties. (English summary) **2001k:14088**
Ressayre, N. The GIT-equivalence for G-line bundles. (English summary) **2001e:14047**
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Thomsen, Jesper Funch Normality of certain nilpotent varieties in positive characteristic. **2001g:14079**
Uda, Toshio A note on quotients of $\mathbf{C}^n$ by certain invariant subgroups of $\mathrm{GL}(n;\mathbf{C})$. **2001e:14048**
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Aluffi, Paolo (*with* Faber, Carel) Linear orbits of arbitrary plane curves. **2001h:14068**
Bremigan, Ralph (*with* Fels, Gregor) Bi-invariant domains in semisimple groups: nonprincipal orbits and boundaries. (English summary) **2001m:20073**
Brion, Michel (*with* Helminck, Aloysius G.) On orbit closures of symmetric subgroups in flag varieties. (English summary) **2001d:14057**
Deveney, James K. (*with* Finston, David R.) Local triviality of proper $\mathbf{G}_a$ actions. (English summary) **2001b:14095**
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Gomi, Yasushi (*with* Nakamura, Iku; Shinoda, Ken-ichi) Hilbert schemes of G-orbits in dimension three. (English summary) **2001m:14008**

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Helminck, Aloysius G. Computing orbits of minimal parabolic k-subgroups acting on symmetric k-varieties. (English summary) **2001k:14095**
— *see also* **Brion, Michel, 2001d:14057**
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— Singular loci of varieties of complexes. (English summary) **2001h:14062**
Le Bruyn, Lieven Optimal filtrations on representations of finite-dimensional algebras. (English summary) **2001c:16025**
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Magyar, Peter (*with* Weyman, Jerzy; Zelevinsky, Andrei) Symplectic multiple flag varieties of finite type. (English summary) **2001i:14064**
Martín-Hernández, T. Classification of group representations on a local k-algebra. (English summary) **2001b:20076**
Miyanishi, Masayoshi *see* **Kinugawa, Keiko, 2001b:13010**
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Peyre, Emmanuel Application of motivic complexes to negligible classes. (English summary) **2001g:14023**
du Plessis, A. A. (*with* Wall, C. T. C.) Hypersurfaces in $\mathbf{P}^n(\mathbf{C})$ with one-parameter symmetry groups. (English summary) **2001j:32027**
Reichstein, Zinovy On the notion of essential dimension for algebraic groups. (English summary) **2001j:20073**
Sancho de Salas, Carlos Invariant theory for unipotent groups and an algorithm for computing invariants. **2001e:14046**
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Strickland, Elisabetta Quotients of flag varieties by a maximal torus. **2001j:14068**
Sun, Xiaotao Remarks on semistability of G-bundles in positive characteristic. (English summary) **2001e:14032**
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— A combinatorial construction of sets with good quotients by an action of a reductive group. (English summary) **2001m:14069**
Timashev, D. A. Cartier divisors and geometry of normal G-varieties. (English summary) **2001e:14007**
Totaro, Burt The Chow ring of a classifying space. **2001f:14011**
Vasserot, Eric *see* **Kapranov, M., 2001h:14012**
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Zaidenberg, Mikhail Exotic algebraic structures on affine spaces. (Russian) **2001d:14069**
Zelevinsky, Andrei *see* **Magyar, Peter et al., 2001i:14064** *and* **Fomin, Sergey, 2001k:14092**
Zwara, Grzegorz Immersions of module varieties. (English summary) **2001b:16011**

14L35 Classical groups (geometric aspects) [see also 20Gxx, 51N30]

Brüstle, Thomas (*with* Hille, Lutz; Röhrle, G.; Zwara, Grzegorz) The Bruhat-Chevalley order of parabolic group actions in general linear groups and degeneration for Δ-filtered modules. (English summary) **2001c:14074**
Geanâu, Mircea On the unitary binary group. (English summary)
Hille, Lutz *see* **Brüstle, Thomas et al., 2001c:14074**
Ohta, Takuya Inductions of nilpotent orbits of real algebraic groups and closures of K orbits on flag manifolds. (Japanese) **2001a:14050**
Röhrle, G. *see* **Brüstle, Thomas et al., 2001c:14074**
Zwara, Grzegorz *see* **Brüstle, Thomas et al., 2001c:14074**

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Billey, Sara (*with* Lakshmibai, V.) ★ Singular loci of Schubert varieties. (English summary) **2001j:14065**
Brüstle, Thomas (*with* Hille, Lutz; Röhrle, G.) Finiteness for parabolic group actions in classical groups. (English summary) **2001k:20100**
Hille, Lutz *see* **Brüstle, Thomas et al., 2001k:20100**
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Merkur'ev, A. S. Cohomological invariants of simply connected groups of rank 3. **2001f:20095**
Röhrle, G. *see* **Brüstle, Thomas et al., 2001k:20100**

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14L99 None of the above, but in this section

Rodier, F. Nombre de points des surfaces de Deligne et Lusztig. (English and French summaries) [Number of points of Deligne-Lusztig surfaces] **2001g:14080**

Items with secondary classifications in 14L99

Berzins, A. (*with* Plotkin, B. I.; Plotkin, E. B.) Algebraic geometry in varieties of algebras with the given algebra of constants. **2001h:14001**
Plotkin, B. I. *see* **Berzins, A. et al., 2001h:14001**
Plotkin, E. B. *see* **Berzins, A. et al., 2001h:14001**

14Mxx Special varieties

14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [see also 13F45, 13H10]

Ballico, Edoardo The boundedness of singular subvarieties of $\mathbf{P}^N$ not of a general type and with low codimension. (Italian summary) **2001g:14081**
Casanellas, Marta Characterization of non-connected Buchsbaum curves in $\mathbf{P}^n$. (English summary) **2001j:14063**
Kanev, Vassil Chordal varieties of Veronese varieties and catalecticant matrices. (English summary) **2001b:14078**
Soltan, Š. On the computation of symbolic powers of some curves in $\mathbf{A}^4$. (English summary) **2001i:14062**

Items with secondary classifications in 14M05

Ballico, Edoardo Trigonal Gorenstein curves and special linear systems. (English summary) **2001m:14051**
— (*with* Franciosi, Marco) On Property N_p for algebraic curves. (English summary) **2001i:14010**
Cattani, Eduardo (*with* D'Andrea, Carlos; Dickenstein, Alicia) The $\mathscr{A}$-hypergeometric system associated with a monomial curve. **2001f:33018**
Chiarli, Nadia (*with* Greco, Silvio; Nagel, Uwe) Regularity bounds for projective subschemes of codimension two. (English summary) **2001g:14021**
D'Andrea, Carlos *see* **Cattani, Eduardo et al., 2001f:33018**
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Eisenbud, David (*with* Popescu, Sorin) The projective geometry of the Gale transform. (English summary) **2001g:14083**
Franciosi, Marco *see* **Ballico, Edoardo, 2001i:14010**
Geramita, Anthony V. (*with* Harima, Tadahito; Shin, Yong Su) Extremal point sets and Gorenstein ideals. **2001d:13015**
Greco, Silvio *see* **Chiarli, Nadia et al., 2001g:14021**
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Levankov, V. I. The monomial conjecture and Buchsbaum modules. (Russian. English and Russian summaries) **2001k:13036**
Molinelli, Silvia (*with* Patil, D. P.; Tamone, Grazia) On the Cohen-Macaulayness of the coordinate ring of certain projective monomial curves. (English summary) **2001d:13027**
Nagel, Uwe *see* **Chiarli, Nadia et al., 2001g:14021**
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Nhi, Dam Van (*with* Ngô Việt Trung) Specialization of modules over a local ring. (English summary) **2001h:13013**
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Shin, Yong Su *see* **Geramita, Anthony V. et al., 2001d:13015**
Tamone, Grazia *see* **Molinelli, Silvia et al., 2001d:13027**
Thoma, Apostolos On the binomial arithmetical rank. (English summary) **2001a:14023**

14M06 Linkage [see also 13C40]

Casanellas, Marta (*with* Miró Roig, Rosa Maria) Gorenstein liaison of curves in $\mathbf{P}^4$. **2001g:14082**
Miró Roig, Rosa Maria *see* **Casanellas, Marta, 2001g:14082**
Nollet, Scott Integral subschemes of codimension two. (English summary) **2001c:14075**

Items with secondary classifications in 14M06

Chardin, Marc Applications of some properties of the canonical module in computational projective algebraic geometry. (English summary) **2001g:14091**

14M07 Low codimension problems

Chiantini, L. (*with* Chiarli, Nadia; Greco, Silvio) Bounding Castelnuovo-Mumford regularity for varieties with good general projections. (English summary) **2001h:14058**
Chiarli, Nadia *see* **Chiantini, L. et al., 2001h:14058**
Greco, Silvio *see* **Chiantini, L. et al., 2001h:14058**

Items with secondary classifications in 14M07

Arrondo, Enrique (*with* Bertolini, Marina; Turrini, Cristina) Quadric bundle congruences in $G(1,n)$. (English summary) **2001k:14091**
Bertolini, Marina *see* **Arrondo, Enrique et al., 2001k:14091**
Iano-Fletcher, A. R. Working with weighted complete intersections. **2001k:14089**
Kumar, N. Mohan (*with* Rao, A. Prabhakar) Buchsbaum bundles on $\mathbf{P}^n$. (English summary) **2001g:14071**
Kwak, Sijong Higher order normality and Castelnuovo regularity of smooth threefolds. **2001g:14065**
Polini, Claudia (*with* Ulrich, Bernd) Necessary and sufficient conditions for the Cohen-Macaulayness of blowup algebras. (English summary) **2001f:13007**
Rao, A. Prabhakar *see* **Kumar, N. Mohan, 2001g:14071**
Turrini, Cristina *see* **Arrondo, Enrique et al., 2001k:14091**
Ulrich, Bernd *see* **Polini, Claudia, 2001f:13007**

14M10 Complete intersections [see also 13C40]

Iano-Fletcher, A. R. Working with weighted complete intersections. **2001k:14089**

Ivanov, O. A. (*with* Netsvetaev, N. Yu.) On the topological structure of complex projective complete intersections with quadratic singularities. (Russian. English and Russian summaries) **2001a:14051**

Netsvetaev, N. Yu. *see* **Ivanov, O. A., 2001a:14051**

Thoma, Apostolos Construction of set theoretic complete intersections via semigroup gluing. (English summary) **2001h:14059**

Items with secondary classifications in 14M10

Avramov, Luchezar L. Locally complete intersection homomorphisms and a conjecture of Quillen on the vanishing of cotangent homology. (English summary) **2001a:13024**

Avritzer, Dan (*with* Vainsencher, Israel) The Hilbert scheme component of the intersection of two quadrics. (English summary) **2001d:14004**

Barile, Margherita (*with* Morales, Marcel; Thoma, Apostolos) On simplicial toric varieties which are set-theoretic complete intersections. (English summary) **2001i:14066**

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14Qxx Computational aspects in algebraic geometry [see also 12Y05, 13Pxx, 68W30]

14Q05 Curves

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14Q10 Surfaces, hypersurfaces

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14Q20 Effectivity

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Rouillier, F. (*with* Roy, Marie-Françoise; El Din, Mohab Safey) Finding at least one point in each connected component of a real algebraic set defined by a single equation. (English summary) **2001j:14076**
Roy, Marie-Françoise *see* **Rouillier, F. et al., 2001j:14076**
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14Rxx Affine geometry

14R05 Classification of affine varieties

Tsuji, Miki Dimca hypersurfaces and Nagata automorphisms. (English summary) **2001i:14084**

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Kojima, Hideo Complements of plane curves with logarithmic Kodaira dimension zero. (English summary) **2001g:14061**
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Solčan, Š. On the computation of symbolic powers of some curves in A^4. (English summary) **2001i:14062**

14R10 Affine spaces (automorphisms, embeddings, exotic structures, cancellation problem)

Chądzyński, Jacek (*with* Krasiński, Tadeusz) On a Kollár's type estimation of polynomial mappings. (English summary) **2001b:14090**
Drensky, Vesselin S. (*with* Yu, Jie-Tai) Automorphisms and coordinates of polynomial algebras. (English summary) **2001k:14111**
Dussaud, René ★ Transformations rationnelles feuilletées. Courbes gauches. (French) [Foliated rational transformations. Space curves] **2001b:14091**
Jelonek, Zbigniew Injections into affine hypersurfaces. (English summary) **2001f:14104**
Karaś, Marek Finite extensions of mappings from a smooth variety. (English summary) **2001m:14085**
— Birational finite extensions. (English summary) **2001b:14092**
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Makar-Limanov, Leonid On the group of automorphisms of a surface $x^n y = P(z)$. (English summary) **2001m:14086**
Nga, Do Phi *see* **Nguyễn Văn Châu, 2001j:14081**
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Orevkov, Stepan Yu. When a chain of blowups defines an automorphism of $\mathbf{C}^2$. (Russian) **2001e:14060**
Płoski, Arkadiusz (*with* Tworzewski, Piotr) Effective Nullstellensatz on analytic and algebraic varieties. (English summary) **2001c:14090**
Rodak, Tomasz (*with* Spodzieja, Stanisław) On some characterization of proper polynomial mappings. (English summary) **2001e:14061**
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Zaidenberg, Mikhail Exotic algebraic structures on affine spaces. (Russian) **2001d:14069**

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Katsylo, P. I. (*with* Popov, V. L.) On fixed points of algebraic actions on $\mathbf{C}^n$. (Russian. Russian summary) **2001c:14072**
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Shpilrain, Vladimir Combinatorial methods: from groups to polynomial algebras. (English summary) **2001f:20048**

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14R15 Jacobian problem

Aoki, Hisayo Étale endomorphisms of smooth affine surfaces. **2001g:14092**
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Gurjar, R. V. (*with* Miyanishi, Masayoshi) On the Jacobian conjecture for Q-homology planes. (English summary) **2001b:14094**
Gwoździewicz, Janusz A geometry of Pinchuk's map. (English summary) **2001d:14070**
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Assi, Abdallah Sur l'intersection des courbes méromorphes. (English and French summaries) [On the intersection of meromorphic curves] **2001f:14013**
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14R20 Group actions on affine varieties [see also 13A50, 14L30]

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Bandman, Tatiana M. (*with* Makar-Limanov, Leonid) Cylinders over affine surfaces. **2001e:14062**
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14R25 Affine fibrations [see also 14D06]

Bhatwadekar, S. M. (*with* Dutta, Amartya Kumar) On $\mathbf{A}^*$-fibrations. (English summary) **2001h:14079**
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Gurjar, R. V. (*with* Miyanishi, Masayoshi) On the Jacobian conjecture for Q-homology planes. (English summary) **2001b:14094**
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14R99 None of the above, but in this section

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Campillo, Antonio (*with* Gimenez, Philippe) Syzygies of affine toric varieties. (English summary) **2001j:13014**

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15–XX Linear and multilinear algebra; matrix theory

15–01 Instructional exposition (textbooks, tutorial papers, etc.)

Afriat, S. N. ★ Linear dependence. **2001f:15001**
Bhimasankaram, P. *see* **Rao, Ayyagari Ramachandra**
Brandts, Jan H. Projection methods for over sized linear algebra problems. (English summary)
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Davis, H. Ted (*with* Thomson, Kendall T.) ★ Linear algebra and linear operators in engineering. (English summary)
Fulling, Stephen A. ★ Linearity and the mathematics of several variables.
Gitler, Isidoro The triangle-star transformation, intercalate matrices and applications. (Spanish) **2001j:15001**
Lai, Hong-Jian *see* **Liu, Bo Lian, 2001m:15001**
Li, Yu Mei Some important applications of dividing matrix into blocks. (Chinese. English and Chinese summaries)
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Meyer, Carl D., Jr. ★ Matrix analysis and applied linear algebra. (English summary)
Nievergelt, Yves Orthogonal projections and applications in linear algebra. (English summary)
Rao, Ayyagari Ramachandra (*with* Bhimasankaram, P.) ★ Linear algebra.
(Sinyakov, Michael N.) *see* **Fulling, Stephen A.**
Thomson, Kendall T. *see* **Davis, H. Ted**
(Tishchenko, S. V.) *see* **Fulling, Stephen A.**

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Bapat, Ravindra B. ★ Linear algebra and linear models. (English summary) **2001a:62082**
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Gallier, Jean ★ Geometric methods and applications. (English summary) **2001i:53001**
Storch, Uwe (*with* Wiebe, Hartmut) ★ Lehrbuch der Mathematik. Band 4. (German. German summary) [Textbook of mathematics. Vol. 4] **2001m:00001**
Wiebe, Hartmut *see* **Storch, Uwe, 2001m:00001**

15–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 15–02

Radjavi, Heydar (*with* Rosenthal, Peter) ★ Simultaneous triangularization. (English summary) **2001e:47001**
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15–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 15–03

Biryukov, B. V. *see* **Biryukova, L. G., 2001b:01012**
Biryukova, L. G. (*with* Biryukov, B. V.) On the axiomatic sources of fundamental algebraic structures: the achievements of Hermann Grassmann and Robert Grassmann. (Russian. English summary) **2001b:01012**
(Grassmann, Hermann Günther) *see* **Biryukova, L. G., 2001b:01012**
(Grassmann, Robert) *see* **Biryukova, L. G., 2001b:01012**
Jensen, Shane T. (*with* Styan, George P. H.) Some comments and a bibliography on the Laguerre-Samuelson inequality with extensions and applications in statistics and matrix theory. (English summary) **2001h:15013**
Styan, George P. H. *see* **Jensen, Shane T., 2001h:15013**

15–04 Explicit machine computation and programs (not the theory of computation or programming)

Alatancang (*with* Zhang, Hong Qing[1]; Zhong, Wan Xie) Pseudo-division algorithm for matrix multivariable polynomial and its application. (Chinese. English and Chinese summaries) **2001f:15002**
Bourke, Mary M. (*with* Fisher, D. Grant) Identification algorithms for fuzzy relational matrices. I. Non-optimizing algorithms. (English summary) **2001b:15001**
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Fisher, D. Grant *see* **Bourke, Mary M., 2001b:15001** *and* **2001b:15002**
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Papa, Gregor (*with* Šilc, Jurij) Linear algebra in one-dimensional systolic arrays. (English summary) **2001b:15003**
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Beckermann, Bernhard (*with* Cabay, Stan; Labahn, George) Fraction-free computation of matrix Padé systems. (English summary) (*see* **2001i:68010**)
Bläser, Markus Lower bounds for the multiplicative complexity of matrix multiplication. (English summary) **2001b:68051**
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Corless, Robert M. (*with* Gianni, Patrizia M.; Trager, Barry M.) A reordered Schur factorization method for zero-dimensional polynomial systems with multiple roots. (English summary) (*see* **2001i:68010**)
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Emiris, Ioannis Z. (*with* Pan, Victor Y.) The structure of sparse resultant matrices. (English summary) **2001i:68173**
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15–06 Proceedings, conferences, collections, etc.

(Dorier, Jean-Luc) *see* **On the teaching of linear algebra, 2001g:15001**
(Queiró, João Filipe) *see* **Workshop: Geometric and Combinatorial Methods in the Hermitian Sum Spectral Problem, 2001g:15002**
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(Calvetti, Daniela) *see* **Mathematical journey through analysis, matrix theory and scientific computation, 2001j:00034**
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15A03 Vector spaces, linear dependence, rank

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15A21 Canonical forms, reductions, classification

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15A24 Matrix equations and identities

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15A33 Matrices over special rings (quaternions, finite fields, etc.)

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15A36 Matrices of integers [see also 11C20]

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15A48 Positive matrices and their generalizations; cones of matrices

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15A51 Stochastic matrices

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15A52 Random matrices

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15A54 Matrices over function rings in one or more variables

Park, Hyungju A realization algorithm for $\mathrm{SL}_2(R[x_1,\cdots,x_m])$ over the Euclidean domain. (English summary) **2001b:15034**
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15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)

An, Guo Bin (*with* Guo, Xi Juan) Double diagonal dominance and criteria for non-singular M-matrices. (Chinese. English and Chinese summaries)
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16Bxx General and miscellaneous

16B50 Category-theoretic methods and results (except as in 16D90) [see also 18–XX]

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16Dxx Modules, bimodules and ideals

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16D10 General module theory

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16D20 Bimodules

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16D50 Injective modules, self-injective rings [see also 16L60]

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Park, Jae Keol *see* **Birkenmeier, Gary F. et al., 2001c:16010**
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16D60 Simple and semisimple modules, primitive rings and ideals

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Kirkman, Ellen (*with* Kuzmanovich, James) Non-Noetherian down-up algebras. **2001j:16043**
Kodiyalam, Vijay (*with* Srinivasan, Raman; Sunder, V. S.) The algebra of G-relations. (English summary) **2001k:16019**
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Sunder, V. S. *see* **Kodiyalam, Vijay et al., 2001k:16019**
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16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation

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— (*with* Guil Asensio, Pedro A.) Big direct sums of copies of a module have well behaved indecomposable decompositions. **2001f:16012**
— (*with* Guil Asensio, Pedro A.) Every Σ-CS-module has an indecomposable decomposition. (English summary) **2001g:16010**
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— (*with* Li, Fu An) Separativity of modules with finite exchange property. (English summary) **2001h:16001**
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Fuchs, László¹ (*with* Vámos, P.) The Jordan-Zassenhaus theorem and direct decompositions. **2001e:13027**
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Khurana, Dinesh Is a right perfect right self-injective ring right PF? (English summary) **2001k:16004**
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Vámos, P. *see* **Fuchs, László¹, 2001e:13027**
Yakovlev, Anatoliĭ Vladimirovich *see* **Pimenov, K. I., 2001j:16031**

16D80 Other classes of modules and ideals [see also 16G50]

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Chen, Huan Yin On generalized stable rings. (English summary) **2001d:16012**
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Puninskiĭ, G. E. Finitely presented modules over serial rings. (Russian. English and Russian summaries)
Smith, Patrick F. *see* **Doğruöz, Semra, 2001d:16013**
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Brookes, Christopher J. B. (*with* Groves, J. R. J.) Modules over crossed products of a division ring by a free abelian group. I. **2001g:16052**
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Gómez Pardo, José L. (*with* Guil Asensio, Pedro A.) Every Σ-CS-module has an indecomposable decomposition. (English summary) **2001g:16010**
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16D90 Module categories [see also 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality

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Brodskiĭ, G. M. A duality theory with applications to endomorphism rings of finitely cogenerated injective cogenerators. (Russian. English and Russian summaries)
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Colpi, Riccardo Cotilting bimodules and their dualities. (English summary) **2001f:16015**
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Mantese, Francesca Generalizing cotilting dualities. (English summary) **2001m:16007**
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Phạm Ngọc Ánh (*with* Herbera, Dolors; Menini, Claudia) Baer and Morita duality. (English summary) **2001h:16006**
Wang, Ji Cheng (*with* Chen, Hui[1]) Module Morita structure and applying in generalized Γ-ring. (English and Chinese summaries)
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van den Berg, John E. Torsion preradicals—a tool for analysing rings. (English summary) **2001g:16059**
Berrick, A. J. (*with* Keating, M. E.) ★ Categories and modules with K-theory in view. (English summary) **2001g:18001**
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Buan, Aslak Bakke Subcategories of the derived category and cotilting complexes. (English summary) **2001m:16014**
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Chen, Huan Yin The Morita characterization of projective free rings. (English and Chinese summaries) **2001c:16005**
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Nguyễn Việt Dũng[2] Preinjective modules and finite representation type of Artinian rings. (English summary) **2001c:16033**
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Puig, Lluis ★ On the local structure of Morita and Rickard equivalences between Brauer blocks. (English summary) **2001d:20006**
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Simson, Daniel (*with* Skowroński, Andrzej) The Jacobson radical power series of module categories and the representation type. (English summary) **2001a:16029**
— *see also* **Göbel, Rüdiger, 2001b:16030**
Skowroński, Andrzej *see* **Simson, Daniel, 2001a:16029**
Sun, Shu-Hao Remarks on Tannaka recovery of coalgebras. (English summary) **2001e:16076**
Tholen, Walter *see* **Janelidze, George, 2001d:18002**
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Wang, Dingguo Morita-Takeuchi contexts acting on graded coalgebras. (English summary) **2001m:16067**
Wisbauer, Robert Decompositions of modules and comodules. (English summary) **2001g:16011**
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Zhang, Yang² *see* **Marubayashi, Hidetoshi et al., (2001i:16001)**
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16D99 None of the above, but in this section

Ansari, Muhammad Rashid Kamal (*with* Rauf Qureshi, M. A.) On exact sequences of Matlis. (English summary) **2001k:16011**
Chen, Tu Yun *see* **Zhang, Qing De et al.**
Davvaz, Bijan Fuzzy H_v-submodules. (English summary)
Elizarov, V. P. Conditions for the compatibility of systems of linear equations over rings. (Russian. English and Russian summaries)
Li, Xiao Zhong *see* **Zhang, Qing De et al.**
Rauf Qureshi, M. A. *see* **Ansari, Muhammad Rashid Kamal, 2001k:16011**
Tuganbaev, Askar A. On the left distributivity of right distributive rings. (Russian. English and Russian summaries)
Zhang, Qing De (*with* Chen, Tu Yun; Li, Xiao Zhong) The lattice of F_R^A-modules. (English and Chinese summaries)
Zhao, Li Jun L-fuzzy modules on L-fuzzy subrings in bi-induced mappings. (Chinese. English and Chinese summaries)

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Czédli, Gábor (*with* Takách, Gëza) On duality of submodule lattices. (English summary) **2001e:06012**
Escoriza, José (*with* Torrecillas Jover, Blas) Multiplication rings and graded rings. **2001a:16067**
Takách, Gëza *see* **Czédli, Gábor, 2001e:06012**
Torrecillas Jover, Blas *see* **Escoriza, José, 2001a:16067**

16Exx Homological methods {For commutative rings, see 13Dxx; for general categories, see 18Gxx.}

16E05 Syzygies, resolutions, complexes

Enochs, Edgar E. (*with* García Rozas, Juan Ramon) Tensor products of complexes. **2001b:16006**
García Rozas, Juan Ramon ★ Covers and envelopes in the category of complexes of modules. (English summary) **2001i:16009**
— *see also* **Enochs, Edgar E., 2001b:16006**
Golod, E. S. Homology of the Shafarevich complex, and noncommutative complete intersections. (Russian. English and Russian summaries) **2001k:16012**
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Hirano, Yoshiaki Another triangular matrix ring having Auslander-Gorenstein property.
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Siemons, Johannes *see* **Mnukhin, V. B., 2001k:16013**
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16E20 Grothendieck groups, K-theory, etc. [see also 18F30, 19Axx, 19D50]

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16E45 Differential graded algebras and applications

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16E50 von Neumann regular rings and generalizations

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16G30 Representations of orders, lattices, algebras over commutative rings [see also 16H05]

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— A reduced Tits quadratic form and tameness of three-partite subamalgams of tiled orders. (English summary) **2001b:16013**
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16G50 Cohen-Macaulay modules

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16G60 Representation type (finite, tame, wild, etc.)

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Balashov, O. I. (*with* Generalov, A. I.) The Yoneda algebras for some class of dihedral algebras. (English summary) **2001m:16020**
Barot, Michael (*with* Brüstle, Thomas; de la Peña, José Antonio) Derived-tame tree algebras of type E. (English summary) **2001i:16026**
Bautista Ramos, Raymundo On some tame and discrete families of modules. **2001k:16024**
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16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers

Angeleri Hügel, Lidia (*with* Coelho, Flávio Ulhoa) On the Auslander-Reiten quiver of a $\mathcal{P}_1$-hereditary Artin algebra. (English summary) **2001i:16028**
Assem, Ibrahim (*with* Zacharia, Dan) Full embeddings of almost split sequences over split-by-nilpotent extensions. (English summary) **2001f:16033**
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Enge, Ole Quasitilted algebras have preprojective components. (English summary) **2001e:16021**
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Kawata, Shigeto On Auslander-Reiten sequences for irreducible lattices over integral group rings. (Japanese. English summary)

— On standard Auslander-Reiten sequences for finite groups. (English summary) **2001c:16034**
— *see also* **Inoue, Takayuki, (2001i:16001)**
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Reiten, Idun Finite-dimensional algebras and singularity theory. **2001m:16016**
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16G99 None of the above, but in this section

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16H05 Orders and arithmetic, separable algebras, Azumaya algebras [see also 11R52, 11R54, 11S45]

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Chatters, A. W. Non-isomorphic maximal orders with isomorphic matrix rings. (English summary) **2001h:16017**
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Le Bruyn, Lieven Local structure of Schelter-Procesi smooth orders. (English summary) **2001b:16018**
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Ouyang, Min Azumaya extensions and Galois correspondence. (English summary) **2001k:16075**
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Yi, Zhong *see* **Marubayashi, Hidetoshi, 2001g:16053**

16Kxx Division rings and semisimple Artin rings [see also 12E15, 15A30]

16K20 Finite-dimensional {For crossed products, see 16S35.}

Brussel, Eric S. Noncrossed products over $k_p(t)$. (English summary) **2001j:16022**
Chen, Fuyuan A condition about isomorphism of the quaternion algebras. (Chinese. English and Chinese summaries)
Dejaiffe, Ingrid (*with* Lewis, David W.; Tignol, Jean-Pierre) Witt equivalence of central simple algebras with involution. (English summary) **2001m:16024**
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16Pxx Chain conditions, growth conditions, and other forms of finiteness

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16Rxx Rings with polynomial identity

16R10 T-ideals, identities, varieties of rings and algebras

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16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)

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16S34 Group rings [see also 20C05, 20C07], Laurent polynomial rings

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16S35 Twisted and skew group rings, crossed products

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16S36 Ordinary and skew polynomial rings and semigroup rings [see also 20M25]

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Artamonov, V. A. General quantum polynomials. (English summary) **2001c:16051**
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Hong, Hoon Ore principal subresultant coefficients in solutions. (English summary) **2001m:16044**
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— (*with* Wang, Qiang) Hereditary semigroup algebras. (English summary) **2001h:16029a**
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Kim, Hong Kee Some results on skew polynomial rings over a reduced ring.
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Sapanci, Mehmet (*with* Voskoglou, Michael Gr.) A note on ideals in skew polynomial rings. (English and Greek summaries) **2001f:16055**
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16S37 Quadratic and Koszul algebras

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Davydov, Alekseĭ A. Totally positive sequences and R-matrix quadratic algebras. (English summary) **2001k:16052**
Fröberg, Ralf Koszul algebras. **2001i:16046**

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16S38 Rings arising from non-commutative algebraic geometry

Ajitabh, Kaushal Residue complex for Sklyanin algebras of dimension three. (English summary) **2001a:16045**
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Chan, Daniel Sai-Ping Twisted multi-homogeneous coordinate rings. (English summary) **2001f:14007**
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Vancliff, Michaela Non-commutative spaces for graded quantum groups and graded Clifford algebras. (English summary) **2001m:58012**
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16S40 Smash products of general Hopf actions [see also 16W30]

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16S50 Endomorphism rings; matrix rings [see also 15–XX]

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16Wxx Rings and algebras with additional structure

16W10 Rings with involution; Lie, Jordan and other nonassociative structures [see also 17B60, 17C50, 46Kxx]

Aburawash, Usama A. Involution rings and strict chain conditions. (English summary) **2001c:16060**
Beidar, K. I. (*with* Chebotar', M. A.) On functional identities and d-free subsets of rings. I, II. (English summary) **2001j:16046**
Birkenmeier, Gary F. (*with* Park, Jae Keol) Self-adjoint ideals in Baer $*$-rings. **2001i:16060**
Blau, Philip S. (*with* Martindale, Wallace S., 3rd) Lie isomorphisms in *-prime GPI rings with involution. (English summary) **2001i:16061**
Brešar, Matej (*with* Fošner, Maja) On rings with involution equipped with some new product. (English summary) **2001h:16036**
Carini, Luisa (*with* De Filippis, Vincenzo) Commutators with power central values on a Lie ideal. (English summary) **2001b:16037**

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Niță, Constantin Quelques résultats sur les anneaux N-réguliers avec involution. [Some results on N-regular rings with involution] (*see* **2001g:00020**)
Park, Jae Keol *see* **Birkenmeier, Gary F., 2001i:16060**

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Arnal, Petra M. (*with* Laliena Clemente, Jesús A.) Lie and Jordan structures in associative superalgebras with superinvolution: special cases. (English summary) **2001b:17034**
Beĭdar, K. I. (*with* Brešar, Matej; Chebotar′, M. A.; Martindale, Wallace S., 3rd) On functional identities in prime rings with involution. II. (English summary) **2001f:16046**
— (*with* Chebotar′, M. A.) On Lie-admissible algebras whose commutator Lie algebras are Lie subalgebras of prime associative algebras. (English summary) **2001m:17040**
Booth, G. L. (*with* Groenewald, N. J.) Lattices of radicals of involution rings. (English summary) **2001k:16034**
Brešar, Matej *see* **Beĭdar, K. I. et al., 2001f:16046**
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Dejaiffe, Ingrid (*with* Lewis, David W.; Tignol, Jean-Pierre) Witt equivalence of central simple algebras with involution. (English summary) **2001m:16024**
Essannouni, H. (*with* Kaïdi, El Amin Mokhtar) Le théorème de Hua pour les algèbres artiniennes simples. (English summary) [Hua's theorem for simple Artinian rings] **2001a:16031**
Farkas, Daniel R. Modules for Poisson algebras. (English summary) **2001d:17025**
— (*with* Green, Edward L.[1]; Marcos, Eduardo do Nascimento) Diagonalizable derivations of finite-dimensional algebras. II. (English summary) **2001k:16062**
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Racine, Michel L. Associative superalgebras with superinvolution. (English summary) **2001h:16051**
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16W20 Automorphisms and endomorphisms

Bergen, Jeffrey (*with* Wilson, Mark C.) X-inner automorphisms of semi-commutative quantum algebras. (English summary) **2001a:16057**
Cao, You An (*with* Wang, Jingtong) A note on algebra automorphisms of strictly upper triangular matrices over commutative rings. (English summary) **2001d:16049**
Chebotar′, M. A. On Lie automorphisms of simple rings of characteristic 2. (Russian. English and Russian summaries)
Mihovski, S. V. Algebraically independent automorphisms of prime rings.
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— (*with* Xue, Lian Yong) The structure of Galois algebras. (English summary) **2001m:16055**
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Blau, Philip S. (*with* Martindale, Wallace S., 3rd) Lie isomorphisms in *-prime GPI rings with involution. (English summary) **2001i:16061**
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16W22 Actions of groups and semigroups; invariant theory

Goodearl, Kenneth R. (*with* Letzter, Edward S.) Quantum n-space as a quotient of classical n-space. (English summary) **2001e:16061**
Kharchenko, V. K. Fixed rings and noncommutative invariant theory. **2001g:16067**
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Szeto, George (*with* Xue, Lian Yong) On three types of Galois extensions of rings. (English summary) **2001k:16061**
— (*with* Xue, Lian Yong) On characterizations of a center Galois extension. (English summary) **2001c:16061**
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Guichardet, Alain Suites spectrales à la Hochschild-Serre pour les produits croisés d'algèbres et de groupes. (French summary) [Hochschild-Serre spectral sequences for crossed products of algebras and groups] **2001m:16013**
Leitenberger, Frank A quantum deformation of invariants of higher binary forms. (English summary) **2001f:17027**

16W25 Derivations, actions of Lie algebras

Ashraf, Mohammad (*with* Nadeem-ur-Rehman; Quadri, M. A.) On (σ,τ)-derivations in certain classes of rings. (English and Serbo-Croatian summaries)
— (*with* Nadeem-ur-Rehman) On Lie ideals and Jordan left derivations of prime rings. (English summary) **2001d:16051**
Bell, Howard E. (*with* Klein, Abraham A.; Lucier, Jason) Nilpotent derivations and commutativity. **2001e:16062**
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— (*with* Grzeszczuk, Piotr) Skew derivations whose invariants satisfy a polynomial identity. (English summary) **2001g:16068**
Cerati, E. (*with* Schwer, I.) Derivations and automorphisms in the twisted polynomial algebra. (English summary) **2001c:16062**
Chang, Ick-Soon Jordan derivations in noncommutative Banach algebras. (English summary) **2001e:16064**
De Filippis, Vincenzo Derivations on k-th commutators in semiprime rings. (English summary) **2001a:16058**
— (*with* Di Vincenzo, O. M.) Posner's second theorem and an annihilator condition. (English summary) **2001m:16056**
Di Vincenzo, O. M. *see* **De Filippis, Vincenzo, 2001m:16056**
Farkas, Daniel R. (*with* Geiß, Christof; Green, Edward L.[1]; Marcos, Eduardo do Nascimento) Diagonalizable derivations of finite-dimensional algebras. I. (English summary) **2001c:16063**
— (*with* Green, Edward L.[1]; Marcos, Eduardo do Nascimento) Diagonalizable derivations of finite-dimensional algebras. II. (English summary) **2001k:16062**
Geiß, Christof *see* **Farkas, Daniel R. et al., 2001c:16063**
Green, Edward L.[1] *see* **Farkas, Daniel R. et al., 2001c:16063** *and* **2001k:16062**
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Kim, Byung-Do On the derivations of semiprime rings and noncommutative Banach algebras. (English summary) **2001c:16064**
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Nakajima, Atsushi On generalized higher derivations. (English summary) **2001j:16047**
Niu, Feng Wen *see* **Zhang, Shu-hua, 2001e:16066** *and* **Wei, Feng**
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Sánchez-Valenzuela, O. A. (*with* Victoria-Monge, Carles) Universal homogeneous derivations of graded ε-commutative algebras. (English summary) **2001f:16068**
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Su, Yucai (*with* Xu, Xiaoping; Zhang, Hechun) Derivation-simple algebras and the structures of Lie algebras of Witt type. (English summary) **2001j:16048**
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Argaç, Nurcan *see* **Deng, Qing[1] et al., 2001e:16084**
Ashraf, Mohammad (*with* Vukman, Joso) On derivations and commutativity in semi-prime rings. (English summary)
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Chuang, Chen-Lian Identities with skew derivations. (English summary) **2001e:16041**
De Filippis, Vincenzo Automorphisms and derivations in prime rings. (English and Italian summaries) **2001c:16038**
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Fong, Yuen Derivations in near-ring theory. (*see* **2001f:00022**)
Kandamar, Hatice The k-derivation of a gamma-ring. (English summary) **2001h:16057**
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16W30 Coalgebras, bialgebras, Hopf algebras [see also 16S40, 57T05]; rings, modules, etc. on which these act

Abrams, Lowell Modules, comodules, and cotensor products over Frobenius algebras. (English summary) **2001b:16038**
Abuhlail, Jawad Y. (*with* Gómez-Torrecillas, José; Wisbauer, Robert) Dual coalgebras of algebras over commutative rings. (English summary) **2001g:16069**
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— Doi-Hopf modules over weak Hopf algebras. (English summary) **2001h:16037**
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— The cohomology structure of an algebra entwined with a coalgebra. (English summary) **2001k:16068**
Bulacu, Daniel (*with* Nauwelaerts, Erna) Relative Hopf modules for (dual) quasi-Hopf algebras. **2001g:16071**
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Cen, Jian Miao (*with* Li, Jin Qi) Lie coalgebras in the triangular Hopf algebra representation category. (Chinese. English and Chinese summaries) **2001g:16074**
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Chin, William The coradical filtration for some quantum groups. **2001i:16064**
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— (*with* Takeuchi, Mitsuhiro) Bi-Frobenius algebras. (English summary) **2001k:16071**
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Fischman, Davida *see* **Bakhturin, Yu. A. et al., 2001k:16067**
Fomin, Sergey (*with* Procesi, Claudio) Fibered quadratic Hopf algebras related to Schubert calculus. (English summary) **2001j:16058**
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— On pointed Hopf algebras of dimension p^5. (English summary) **2001g:16076**
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Colloquium:

Quantum Groups and Hopf Algebras ★ New trends in Hopf algebra theory. **2001f:16003**

Conference:

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16W35 Ring-theoretic aspects of quantum groups [see also 17B37, 20G42, 81R50]

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16W50 Graded rings and modules

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16W55 "Super" (or "skew") structure [see also 17A70, 17Bxx, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66.}

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16W60 Valuations, completions, formal power series and related constructions [see also 13Jxx]

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Törner, Günter *see* **Brungs, Hans-Heinrich, 2001k:16003**
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16W70 Filtered rings; filtrational and graded techniques

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16W80 Topological and ordered rings and modules [see also 06F25, 13Jxx]

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Ma, Jingjing Lattice-ordered matrix algebras with the usual lattice order. (English summary) **2001d:16066**
Marshall, Murray (*with* Zhang, Yang[4]) Orderings and valuations on twisted polynomial rings. (English summary) **2001e:16083**
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16Yxx Generalizations {For nonassociative rings, see 17–XX.}

16Y30 Near-rings [see also 12K05]

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Aichinger, Erhard On maximal ideals of tame near-rings. (English summary) **2001c:16079**
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De, B. *see* **Chowdhury, K. C. et al., 2001d:16067**
Deng, Qing[1] (*with* Yenigül, M. Serif; Argaç, Nurcan) On commutativity of near-rings with derivations. (English summary) **2001e:16084**
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— *see also* **Jun, Young Bae et al.**
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16Y60 Semirings [see also 12K10]

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Alarcón, Francisco E. (*with* Polkowska, Dominika) Fully prime semirings. (English summary) **2001j:16064**
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— (*with* Sardar, Sujit Kumar) Semiprime ideals and irreducible ideals of Γ-semirings. (English summary)
El Bashir, R. (*with* Hurt, Jan; Jančařík, A.; Kepka, Tomáš) Simple commutative semirings. **2001k:16085**
Garavelli, Silvia (*with* Lunelli, Massimiliano; Meloni, Giancarlo) BKB-completion of commutative semirings, distributive lattices, monoids, etc. (English summary) **2001f:16086**
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Golan, Jonathan S. ★ Power algebras over semirings. (English summary) **2001a:16077**
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Hurt, Jan *see* **El Bashir, R. et al., 2001k:16085**
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— *see also* **Sen, Mridul Kanti et al., 2001k:16087**
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— (*with* Kaljulaid, Uno) Ω-rings and their flat representations. (English summary) **2001h:16058**
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Yoon, Dall Sun (*with* Kim, Hee Sik) Normalization of fuzzy k-ideals in semirings. (English summary)
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Ésik, Zoltán (*with* Kuich, Werner) A Kleene theorem for Lindenmayerian algebraic power series. (English summary) **2001g:68070**
Gastin, Paul *see* **Droste, Manfred, 2001j:16062**
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Kuich, Werner *see* **Ésik, Zoltán, 2001g:68070**
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Vaida, Dragoş On partially additive semirings and applications. (English summary) **2001m:06024**

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Abul Kalam Azad, T. M *see* **Paul, A. C.**
Feigelstock, Shalom Hypernear-rings and hyperrings. (English summary)
Gu, Wen Xiang *see* **Zhang, Qing De et al.**
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Jun, Young Bae (*with* Kim, Kyung Ho) On structures of gamma-seminear-rings. (English summary)
— *see also* **Öztürk, Mehmet Ali et al., 2001i:16083**
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Kim, Kyung Ho *see* **Öztürk, Mehmet Ali et al., 2001h:16060** *and* **Jun, Young Bae**
Li, Hong Xing *see* **Yao, Bing Xue**
Mahmoud, Mashhour Ibrahim (H, Hyp(R))-hyperring. (English summary)
Massouros, Christos G. *see* **Massouros, Gerasimos G., (2001d:20002)**
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Murali Krishna Rao, M. The Jacobson radical of a Γ-semiring. (English summary)
Nasef, Arafa A. *see* **Abd El-Monsef, M. E. et al.**
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— (*with* Sapanci, Mehmet; Soytürk, Muharrem; Kim, Kyung Ho) Symmetric bi-derivation on prime gamma rings. (English summary) **2001h:16060**
— (*with* Jun, Young Bae; Kim, Kyung Ho) Orthogonal traces on semi-prime gamma rings. (English summary)
Paul, A. C. (*with* Abul Kalam Azad, T. M) Artinian Γ-rings. (English summary)
Pop, Adina Remarks on embedding theorems of (m, n)-semirings. (English summary)
Pradeep Kumar, T. V. *see* **Satyanarayana, Bhavanari et al.**
Qiao, Bing Wu Some notes on fuzzy algebras over fuzzy fields. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Qing De et al.**
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Sapanci, Mehmet *see* **Öztürk, Mehmet Ali et al., 2001h:16060**
Satyanarayana, Bhavanari (*with* Pradeep Kumar, T. V.; Srinivasa Rao, M.) On prime left ideals in Γ-rings. (English summary)
Sharma, Ram Parkash (*with* Sharma, Samriti) On the range of a graded-prime fuzzy ideal.
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Tofan, I. (*with* Volf, A. C.) Fuzzy rings of quotients. (English summary)
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— (*with* Li, Hong Xing) Generalization of HX rings. (Chinese. English and Chinese summaries)
— Isomorphism theorems of regular power rings. (English summary)

Zeković, Biljana S-disjunctive elements of the $(2, n)$-rings. (English and Macedonian summaries)
Zhang, Qing De (*with* Gu, Wen Xiang; Qiao, Bing Wu) Fuzzy rings redefined. (Chinese. English and Chinese summaries)
Zhang, Zhen Liang Normal power rings and uniform power rings. (Chinese. English and Chinese summaries)

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Chajda, Ivan (*with* Länger, Helmut) Ring-like operations in pseudocomplemented semilattices. (English summary) **2001e:06006**
Davvaz, Bijan Remarks on weak hypermodules. **2001g:20086**
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Iancu, Lăcrimioara On n-modules with chain conditions. (English summary) **2001g:20084**
Länger, Helmut *see* **Chajda, Ivan, 2001e:06006**
Yagodovskiĭ, P. V. Homogeneous deformations of discrete groups. (Russian. English and Russian summaries)

16Z05 Computational aspects of associative rings [see also 68W30]

Apel, Joachim Computational ideal theory in finitely generated extension rings. (English summary) **2001f:16088**
Eberly, Wayne (*with* Giesbrecht, M.) Efficient decomposition of associative algebras over finite fields. (English summary) **2001a:16079**
Giesbrecht, M. *see* **Eberly, Wayne, 2001a:16079**
de Graaf, Willem A. (*with* Ivanyos, Gábor) Finding splitting elements and maximal tori in matrix algebras. (English summary) **2001f:16089**
Green, Edward L.[1] Multiplicative bases, Gröbner bases, and right Gröbner bases. (English summary) **2001m:16086**
Ivanyos, Gábor (*with* Lux, Klaus) Treating the exceptional cases of the MeatAxe. (English summary) **2001j:16067**
— *see also* **de Graaf, Willem A., 2001f:16089**
Li, Shi Qi An application of Maple to the study of quaternions and the quaternion group. (Chinese. English and Chinese summaries)
Li, Ziming A subresultant theory for Ore polynomials with applications. (English summary) (*see* **2001m:68004**)
Lux, Klaus *see* **Ivanyos, Gábor, 2001j:16067**

Items with secondary classifications in 16Z05

Borges, Mijail *see* **Borges Trenard, Miguel Ángel, 2001g:16045**
Borges Trenard, Miguel Ángel (*with* Borges, Mijail) Gröbner bases property on elimination ideal in the noncommutative case. (English summary) **2001g:16045**
Golod, E. S. Standard bases and homology. II. (Russian) **2001h:16053**
Green, Edward L.[1] Noncommutative Gröbner bases, and projective resolutions. **2001f:16030**
Heyworth, Anne Rewriting as a special case of non-commutative Gröbner basis theory. **2001f:16053**
Ivanyos, Gábor Fast randomized algorithms for the structure of matrix algebras over finite fields (extended abstract). (English summary)
Li, Ziming (*with* Nemes, István) A modular algorithm for computing greatest common right divisors of ore polynomials. (English summary) (*see* **2001i:68010**)
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Nordbeck, Patrik Canonical subalgebra bases in non-commutative polynomial rings. (English summary) **2001m:16045**
Ovsienko, Sergei A. Bimodule and matrix problems. **2001d:16030**
Tsai, Harrison Weyl closure of a linear differential operator. (English summary) **2001g:16048**

17–XX Nonassociative rings and algebras

17–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Frappat, L. (*with* Sciarrino, A.; Sorba, P.) ★ Dictionary on Lie algebras and superalgebras. (English summary) **2001m:17001**
Sciarrino, A. *see* **Frappat, L. et al., 2001m:17001**
Sorba, P. *see* **Frappat, L. et al., 2001m:17001**

Items listed otherwise than by author

Dictionary:
Lie algebras and superalgebras *see* **Frappat, L. et al., 2001m:17001**

17–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Jones, Gareth A.) *see* **Serre, Jean-Pierre, 2001h:17001**
Martínez López, Consuelo Lie algebras and quantum groups. (English summary) **2001a:17001**
Serre, Jean-Pierre ★ Complex semisimple Lie algebras. (English summary) **2001h:17001**

Items with secondary classifications in 17–01

de Graaf, Willem A. ★ Lie algebras: theory and algorithms. **2001j:17011**

17–02 Research exposition (monographs, survey articles)

Bautista Ramos, Raymundo Algebra, geometry and physics. (Spanish) **2001j:17001**

Items with secondary classifications in 17–02

Goze, Michel (*with* Khakimdzhanov, Yu. B.) Nilpotent and solvable Lie algebras. **2001f:17015**
de Graaf, Willem A. ★ Lie algebras: theory and algorithms. **2001j:17011**
Khakimdzhanov, Yu. B. *see* **Goze, Michel, 2001f:17015**
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17–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 17–03

Bar-Natan, Dror From astrology to topology via Feynman diagrams and Lie algebras. (*see* **2001b:00026**)
Hawkins, Thomas ★ Emergence of the theory of Lie groups. (English summary) **2001f:01031**
(Poincaré, Henri) *see* **Ton-That, Tuong, 2001f:01039**
Ton-That, Tuong (*with* Tran, Thai-Duong) Poincaré's proof of the so-called Birkhoff-Witt theorem. (English and French summaries) **2001f:01039**
Tran, Thai-Duong *see* **Ton-That, Tuong, 2001f:01039**

17–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 17–04

Kornyak, Vladimir V. A program for computing cohomologies of Lie superalgebras of vector fields. (English and Russian summaries) **2001b:17033**

17–06 Proceedings, conferences, collections, etc.

(Costa, Roberto C. F.) *see* **Nonassociative algebra and its applications, 2001a:17002**
(Grishkov, A. N.) *see* **Nonassociative algebra and its applications, 2001a:17002**
(Guzzo, Henrique, Jr.) *see* **Nonassociative algebra and its applications, 2001a:17002**
(Lin, Zongzhu) *see* **Representations and quantizations, 2001g:17001**
(Peresi, Luiz Antonio) *see* **Nonassociative algebra and its applications, 2001a:17002**
(Wang, Jian-Pan) *see* **Representations and quantizations, 2001g:17001**

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Conference:
Nonassociative Algebra and its Applications ★ Nonassociative algebra and its applications. **2001a:17002**
Representation Theory ★ Representations and quantizations. **2001g:17001**
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Representations and quantizations ★ Representations and quantizations. **2001g:17001**
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Shanghai ★ Representations and quantizations. **2001g:17001**

Items with secondary classifications in 17–06

(Burdík, Čestmír) *see* **Quantum groups and integrable systems, 2001f:81009**
(Devchand, Chandrashekar) *see* **In memory of Mikhail Vladimirovich Savel'ev, 2001e:00031**
(Heyer, Herbert) *see* **Analysis on infinite-dimensional Lie groups and algebras, 2001d:00027**
(Kashiwara, Masaki) *see* **Physical combinatorics, 2001a:00033**
(Manin, Yurii Ivanovich) *see* **In memory of Mikhail Vladimirovich Savel'ev, 2001e:00031**
(Marion, Jean A.) *see* **Analysis on infinite-dimensional Lie groups and algebras, 2001d:00027**
(Miwa, Tetsuji) *see* **Physical combinatorics, 2001a:00033**
(Ol'shanetskiĭ, M. A.) *see* **In memory of Mikhail Vladimirovich Savel'ev, 2001e:00031**
(Savel'ev, Mikhail Vladimirovich) *see* **In memory of Mikhail Vladimirovich Savel'ev, 2001e:00031**
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17–08 Computational methods

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17Axx General nonassociative rings

17A01 General theory

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17A15 Noncommutative Jordan algebras

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17A20 Flexible algebras

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17A30 Algebras satisfying other identities

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17A36 Automorphisms, derivations, other operators

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17A42 Other n-ary compositions ($n \geq 3$)

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17A45 Quadratic algebras (but not quadratic Jordan algebras)

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17A50 Free algebras

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17A60 Structure theory

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17A65 Radical theory

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17A70 Superalgebras

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17A80 Valued algebras

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17B35 Universal enveloping (super)algebras [see also 16S30]

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17B60 Lie (super)algebras associated with other structures (associative, Jordan, etc.) [see also 16W10, 17C40, 17C50]

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17B62 Lie bialgebras

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17B67 Kac-Moody (super)algebras (structure and representation theory)

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17B75 Color Lie (super)algebras

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17C70 Super structures

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— (*with* Montaner, Fernando) On Herstein's constructions relating Jordan and associative superalgebras. (English summary) **2001e:17044**
Kac, Victor G. (*with* Martínez López, Consuelo; Zel'manov, E. I.) Graded simple Jordan superalgebras of growth one. (English summary) **2001k:17052**
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Items with secondary classifications in 17C70

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Gnedbaye, Allahtan Victor (*with* Wambst, Marc) Jordan triples and operads. (English summary) **2001f:17066**
Lawson, Jimmie D. (*with* Lim, Yongdo) Compactification structure and conformal compressions of symmetric cones. (English summary) **2001d:17033**
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Benito, Pilar (*with* Draper, Cristina; Elduque, Alberto) Invariant connections on symmetric spaces. (English summary) **2001d:53060**
Clerc, Jean-Louis A generalized Hecke identity. (English summary) **2001h:42019**
Draper, Cristina *see* **Benito, Pilar et al., 2001d:53060**
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Lee, Sang Youl (*with* Lim, Yongdo; Park, Chan-Young) Symmetric geodesics on conformal compactifications of Euclidean Jordan algebras. (English summary) **2001a:53064**
Lim, Yongdo *see* **Lee, Sang Youl et al., 2001a:53064**
Micali, Artibano *see* **da Motta Ferreira, João Carlos, 2001f:17001**
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Park, Chan-Young *see* **Lee, Sang Youl et al., 2001a:53064**

17Dxx Other nonassociative rings and algebras

17D05 Alternative rings

Bakhturin, Yu. A. (*with* Zaĭtsev, M. V.) Identities of graded alternative algebras. **2001c:17047**
Couto, M. A. (*with* Guzzo, Henrique, Jr.) The radical in alternative baric algebras. (English summary) **2001i:17041**
Goodaire, Edgar G. A brief history of loop rings. (English summary) **2001i:17044**
— Alternative rings of small order and the hunt for Moufang circle loops. (English summary) **2001b:17043**
— (*with* Zhou, Yongxin) Cayley-Dickson algebras and RA loops. (English summary) **2001i:17042**
— (*with* Zhou, Yongxin) Alternative rings of small order. (English summary) **2001f:17067**
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López-Díaz, M. Concepción The Wedderburn decomposition in finite-dimensional alternative superalgebras of characteristic 3. (English summary) **2001i:17045**
— Cohomologies of finite-dimensional simple alternative superalgebras of characteristic 3. (English summary) **2001b:17044**
Pchelintsev, S. V. Prime alternative algebras. (Russian. English and Russian summaries)
— On an almost Specht variety of alternative algebras over a field of characteristic 3. (Russian. Russian summary) **2001e:17045**
Polcino Milies, César The torsion product property in alternative algebras. II. (English summary)
Suvarna, K. (*with* Vijaya, R. Bhuvana) On prime alternative rings satisfying weak Novikov identity. (English summary)
Vijaya, R. Bhuvana *see* **Suvarna, K.**
Zaĭtsev, M. V. *see* **Bakhturin, Yu. A., 2001c:17047**
Zhou, Yongxin Cayley-Dickson algebras and alternative loop algebras. (English summary) **2001i:17043**
— *see also* **Goodaire, Edgar G., 2001f:17067** *and* **2001i:17042**

Items with secondary classifications in 17D05

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— (*with* Kaila, Anjana) Hypercentral units in alternative integral loop rings. **2001g:20081**
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— (*with* Micali, Artibano) Sur des anneaux commutatifs à puissances associatives de caractéristique première $p>0$. (English and French summaries) [Commutative power-associative rings of prime characteristic $p>0$] **2001f:17001**
Segal, S. K. *see* **Bakhturin, Yu. A. et al., 2001c:17001**
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— Speciality and deformations of algebras. **2001b:17005**
Yoshioka, Akira Formal deformation of smooth function algebra to an alternative algebra. (English summary) **2001g:53162**
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17D10 Mal'cev (Mal'tsev) rings and algebras

Filippov, V. T. On centers of Mal'tsev and alternative algebras. (Russian. Russian summary) **2001i:17046**
Shestakov, Ivan P. Speciality problem for Malcev algebras and Poisson Malcev algebras. (English summary) **2001d:17034**

Items with secondary classifications in 17D10

Cedilnik, Anton Subalternative algebras. (English summary) **2001i:17001**
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17D15 Right alternative rings

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Hentzel, Irvin Roy The commuting nucleus of right alternative rings. (English summary) **2001d:17035**

17D20 (γ,δ)-rings, including $(1,-1)$-rings

Dedlovskaya, M. E. Isotopes of a free algebra of type $(-1,1)$ with three generators. (Russian. English and Russian summaries) **2001j:17052**
Kleinfeld, Erwin (*with* Kleinfeld, Margaret) Rings with $(x,y,z)=(x,z,y)$. (*see* **2001a:17002**)
Kleinfeld, Margaret *see* **Kleinfeld, Erwin, (2001a:17002)**
Lõhmus, U. (*with* Roomeldi, R.) Nilpotency of Z_2-graded $(-1,1)$ algebra $B=A+M$ in the case $A^2=0$. (English summary) **2001e:17046**
Roomeldi, R. *see* **Lõhmus, U., 2001e:17046**
Subhashini, K. *see* **Suvarna, K.**
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17D25 Lie-admissible algebras

Beĭdar, K. I. (*with* Chebotar', M. A.) On Lie-admissible algebras whose commutator Lie algebras are Lie subalgebras of prime associative algebras. (English summary) **2001m:17040**
Chebotar', M. A. *see* **Beĭdar, K. I., 2001m:17040**
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17D92 Genetic algebras

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Benavides Gallardo, Raúl (*with* Burgueño, C.; Mallol, Cristián; Costa, Roberto C. F.) Some algebras of order 4. (English summary) **2001a:17045**

Burgueño, C. *see* **Benavides Gallardo, Raúl et al., 2001a:17045**

Catalán S., Abdón E-ideals in Bernstein algebras. (English summary) **2001i:17047**

Costa, Roberto C. F. (*with* Ikemoto Murakami, L. S.) On idempotents and isomorphisms of multiplication algebras of Bernstein algebras. (English summary) **2001f:17069**

— (*with* Lelis, M. L.) A classification of recurrent linear forms in Bernstein algebras. (English summary) **2001m:17041**

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Deeba, E. Y. (*with* de Korvin, André) Genetic algebras—their fuzzy analog. (English summary) **2001b:17046**

Garcia-Muñiz, M. A. (*with* Martínez López, Consuelo) Derivations in second order Bernstein algebras. **2001i:17048**

González, Santos (*with* López-Díaz, M. Concepción; Martínez López, Consuelo) Bernstein superalgebras of dimension four. **2001c:17049**

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Mallol, Cristián (*with* Varro, R.) Conditions d'existence d'une loi de Hardy-Weinberg périodique dans des populations sélectivement neutres. (French summary) [Conditions for the existence of a periodic Hardy-Weinberg law in selectively neutral populations] **2001i:17050**

— (*with* Suazo, Avelino) Une classe d'algèbres pondérées de degré 4. (French summary) [A class of weighted algebras of degree 4] **2001b:17047**

— *see also* **Benavides Gallardo, Raúl et al., 2001a:17045**

Martínez López, Consuelo (*with* Setó, J.) Bernstein algebras whose lattice of ideals is distributive. **2001i:17051**

— *see also* **González, Santos et al., 2001c:17049** *and* **Garcia-Muñiz, M. A., 2001i:17048**

Setó, J. *see* **Martínez López, Consuelo, 2001i:17051**

Shestakov, Ivan P. *see* **López-Díaz, M. Concepción et al., 2001i:17049**

Suazo, Avelino *see* **Mallol, Cristián, 2001b:17047**

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Varro, R. *see* **Mallol, Cristián, 2001i:17050**

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Zitan, Fouad Sur les algèbres pondérées semi-simples. (English summary) [On semisimple baric algebras] **2001e:17047**

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Burgueño, C. (*with* Mallol, Cristián; Walkhoff, A.) Algèbres de rang 3 en caractéristique 2. (English summary) [Rank-3 algebras in characteristic 2] **2001h:17002**

Couto, M. A. (*with* Guzzo, Henrique, Jr.) The radical in alternative baric algebras. (English summary) **2001i:17041**

Guzzo, Henrique, Jr. *see* **Couto, M. A., 2001i:17041**

Mallol, Cristián *see* **Burgueño, C. et al., 2001h:17002**

Walkhoff, A. *see* **Burgueño, C. et al., 2001h:17002**

17D99 None of the above, but in this section

Items with secondary classifications in 17D99

Akivis, Maks Aizikovich (*with* Goldberg, Vladislav V.) Algebraic aspects of web geometry. (English summary) **2001i:53026**

Goldberg, Vladislav V. *see* **Akivis, Maks Aizikovich, 2001i:53026**

Lyubich, Yu. Banach-Bernstein algebras and their applications. **2001c:46106**

18–XX Category theory; homological algebra {For commutative rings see 13Dxx, for associative rings 16Exx, for groups 20Jxx, for topological groups and related structures 57Txx; see also 55Nxx and 55Uxx for algebraic topology.}

18–01 Instructional exposition (textbooks, tutorial papers, etc.)

Berrick, A. J. (*with* Keating, M. E.) ★ Categories and modules with K-theory in view. (English summary) **2001g:18001**
Keating, M. E. *see* **Berrick, A. J., 2001g:18001**

Items with secondary classifications in 18–01

Pratt, Vaughan Chu spaces. **2001j:03110**

18–02 Research exposition (monographs, survey articles)

Mac Lane, Saunders ★ Categories for the working mathematician. (English summary) **2001j:18001**

Items with secondary classifications in 18–02

Kilp, Mati (*with* Knauer, Ulrich; Mikhalëv, A. V.) ★ Monoids, acts and categories. **2001b:20113**
Knauer, Ulrich *see* **Kilp, Mati et al., 2001b:20113**
Mikhalëv, A. V. *see* **Kilp, Mati et al., 2001b:20113**
Osborne, M. Scott ★ Basic homological algebra. (English summary) **2001d:18013**

18–03 Historical (must also be assigned at least one classification number from Section 01)

Berni Canani, Ugo Categories as a common cultural patrimony. (*see* **2001d:00028**)
Carboni, A. (*with* Pedicchio, M. Cristina) A new proof of the Mal'cev theorem. (*see* **2001d:00028**)
Lawvere, F. William Volterra's functionals and covariant cohesion of space. (English summary) **2001e:18001**
Pedicchio, M. Cristina *see* **Carboni, A., (2001d:00028)**
Schanuel, Stephen H. Transcendence in objective number theory. (*see* **2001d:00028**)

Items with secondary classifications in 18–03

Lawvere, F. William Comments on the development of topos theory. **2001i:18009**

18–04 Explicit machine computation and programs (not the theory of computation or programming)

Alp, Murat (*with* Wensley, Christopher D.) Enumeration of cat^1-groups of low order. (English summary) **2001e:18002**
Wensley, Christopher D. *see* **Alp, Murat, 2001e:18002**

18–06 Proceedings, conferences, collections, etc.

(Barr, Michael) *see* **Category theory and its applications**
(Lawvere, F. William) *see* **Category theory and its applications**
(Moerdijk, Ieke) *see* **Category theory and its applications**
(Tierney, Myles) *see* **Category theory and its applications**

Items listed otherwise than by author

Birthday:
Lawvere, F. William ★ Category theory and its applications.
Category theory and its applications ★ Category theory and its applications.
Coimbra ★ School on Category Theory and Applications. **2001b:18001**
Festschrift:
Lawvere, F. William ★ Category theory and its applications.
Montreal, QC ★ Category theory and its applications.
School:
Category Theory and Applications ★ School on Category Theory and Applications. **2001b:18001**
Session:
Category Theory and its Applications ★ Category theory and its applications.

Items with secondary classifications in 18–06

(Banaschewski, Bernhard) *see* **Papers in honour of Bernhard Banaschewski, 2001d:00062**
(Betti, Renato) *see* **Categorical studies in Italy, 2001d:00028**
(Brümmer, Guillaume) *see* **Papers in honour of Bernhard Banaschewski, 2001d:00062**
(Gilmour, Christopher) *see* **Papers in honour of Bernhard Banaschewski, 2001d:00062**
(Herrlich, Horst) *see* **Dedicated to Professor H. Herrlich on the occasion of his sixtieth birthday**
(Jacobs, Bart) *see* **Coalgebraic methods in computer science**
(Koslowski, Jürgen) *see* **Categorical perspectives, 2001k:00022**
(Lawvere, F. William) *see* **Categorical studies in Italy, 2001d:00028**
(Melton, Austin) *see* **Categorical perspectives, 2001k:00022**
(Moss, Lawrence S.) *see* **Coalgebraic methods in computer science**
(Porst, Hans-E.) *see* **Dedicated to Professor H. Herrlich on the occasion of his sixtieth birthday**
(Reichel, Horst) *see* **Coalgebraic methods in computer science**
(Rutten, Jan J. M. M.) *see* **Coalgebraic methods in computer science**
(Strecker, George E.) *see* **Categorical perspectives, 2001k:00022**

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Cape Town ★ Papers in honour of Bernhard Banaschewski. **2001d:00062**
Categorical perspectives ★ Categorical perspectives. **2001k:00022**
Categorical studies in Italy ★ Categorical studies in Italy. **2001d:00028**
Coalgebraic methods in computer science ★ Coalgebraic methods in computer science.
Conference:
BB Fest 96 ★ Papers in honour of Bernhard Banaschewski. **2001d:00062**
Georgian-Influenced Mathematics ★ Categorical perspectives. **2001k:00022**
Dedicated to Professor H. Herrlich on the occasion of his sixtieth birthday ★ Dedicated to Professor H. Herrlich on the occasion of his sixtieth birthday.
Festschrift:
Banaschewski, Bernhard ★ Papers in honour of Bernhard Banaschewski. **2001d:00062**
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Lawvere, F. William ★ Categorical studies in Italy. **2001d:00028**
Strecker, George E. ★ Categorical perspectives. **2001k:00022**
Kent, OH ★ Categorical perspectives. **2001k:00022**
Lisbon ★ Coalgebraic methods in computer science.
Meeting:
Italian Friends Meet Bill Lawvere ★ Categorical studies in Italy. **2001d:00028**
Papers in honour of Bernhard Banaschewski ★ Papers in honour of Bernhard Banaschewski. **2001d:00062**
Perugia ★ Categorical studies in Italy. **2001d:00028**

18Axx General theory of categories and functors

18A05 Definitions, generalizations

Adámek, Jiří (*with* Sousa, Lurdes; Tholen, Walter) Totality of product completions. (English summary) **2001b:18002**
Sousa, Lurdes *see* **Adámek, Jiříet al., 2001b:18002**
Tholen, Walter *see* **Adámek, Jiříet al., 2001b:18002**

Items with secondary classifications in 18A05

Höhle, Ulrich (*with* Porst, Hans-E.; Šostak, Alexander P.) Fuzzy functions: a fuzzy extension of the category SET and some related categories. (English summary) **2001j:03097**
Porst, Hans-E. *see* **Höhle, Ulrich et al., 2001j:03097**
Šostak, Alexander P. *see* **Höhle, Ulrich et al., 2001j:03097**

18A10 Graphs, diagram schemes, precategories [See especially 20L05]

Herrlich, Horst *see* **Schröder, Lutz, 2001i:18001**
Schröder, Lutz (*with* Herrlich, Horst) Free adjunction of morphisms. (English summary) **2001i:18001**
— Isomorphisms and splitting of idempotents in semicategories. (French summary) **2001e:18001**

Items with secondary classifications in 18A10

Adámek, Jiří (*with* Kelly, G. Max) $\mathscr{M}$-completeness is seldom monadic over graphs. (English summary) **2001f:18003**
Herrlich, Horst *see* **Schröder, Lutz, 2001j:18003**
Kelly, G. Max *see* **Adámek, Jiří, 2001f:18003**
Oriat, Catherine Detecting equivalence of modular specifications with categorical diagrams. (English summary) **2001m:68126**
Padberg, Julia Categorical approach to horizontal structuring and refinement of high-level replacement systems. (English summary) **2001a:68075**
Schröder, Lutz (*with* Herrlich, Horst) Abstract initiality. (English summary) **2001j:18003**
Taentzer, Gabriele Distributed graphs and graph transformation. (English summary) **2001b:68103**

18A15 Foundations, relations to logic and deductive systems [see also 03–XX]

Items with secondary classifications in 18A15

Došen, Kosta (*with* Petrić, Zoran) The maximality of Cartesian categories. (English summary) **2001m:18002**
Hamano, Masahiro Pontrjagin duality and full completeness for multiplicative linear logic (without Mix). (English summary) **2001j:03109**
Moerdijk, Ieke (*with* Palmgren, Erik) Wellfounded trees in categories. (English summary) **2001j:03016**
Montanari, Ugo (*with* Rossi, Francesca) Graph rewriting, constraint solving and tiles for coordinating distributed systems. (English summary) **2001b:68070**
Palmgren, Erik *see* **Moerdijk, Ieke, 2001j:03016**
Petrić, Zoran *see* **Došen, Kosta, 2001m:18002**
Rossi, Francesca *see* **Montanari, Ugo, 2001b:68070**

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms

Brümmer, Guillaume (*with* Giuli, Eraldo; Holgate, D. B.) Direct reflections. (English summary) **2001j:18002**
Dikranjan, Dikran (*with* Künzi, Hans-Peter A.) Separation and epimorphisms in quasi-uniform spaces. (English summary) **2001i:18002**

Giuli, Eraldo *see* **Brümmer, Guillaume et al., 2001j:18002**
Grandis, Marco Weak subobjects and the epi-monic completion of a category. (English summary) **2001g:18002**
Herrlich, Horst *see* **Schröder, Lutz, 2001j:18003**
Holgate, D. B. *see* **Brümmer, Guillaume et al., 2001j:18002**
Künzi, Hans-Peter A. *see* **Dikranjan, Dikran, 2001i:18002**
Plewe, Till (*with* Pultr, A.; Tozzi, A.) Regular monomorphisms of Hausdorff frames. (English summary) **2001k:18001**
Pultr, A. *see* **Plewe, Till et al., 2001k:18001**
Schröder, Lutz (*with* Herrlich, Horst) Abstract initiality. (English summary) **2001j:18003**
Stramaccia, Luciano Closure operators and categorical unions. **2001i:18003**
Tozzi, A. *see* **Plewe, Till et al., 2001k:18001**

Items with secondary classifications in 18A20

Clementino, Maria Manuel (*with* Giuli, Eraldo; Tholen, Walter) What is a quotient map with respect to a closure operator? (English summary) **2001m:18003**
Giuli, Eraldo *see* **Clementino, Maria Manuel et al., 2001m:18003**
Herrlich, Horst *see* **Schröder, Lutz, 2001i:18001**
Janelidze, George (*with* Tholen, Walter) Functorial factorization, well-pointedness and separability. (English summary) **2001d:18002**
Plewe, Till Quotient maps of locales. (English summary) **2001j:18009**
Raphael, Robert M. Some epimorphic regular contexts. (English summary) **2001a:13008**
Schröder, Lutz (*with* Herrlich, Horst) Free adjunction of morphisms. (English summary) **2001i:18001**
— Isomorphisms and splitting of idempotents in semicategories. (French summary) **2001c:18001**
Tholen, Walter *see* **Janelidze, George, 2001d:18002** *and* **Clementino, Maria Manuel et al., 2001m:18003**

18A22 Special properties of functors (faithful, full, etc.)

Avdashkova, L. P. *see* **Kamornikov, S. F., 2001j:18005**
Holgate, D. B. Compactification and closure. (English summary) **2001j:18004**
Kamornikov, S. F. (*with* Avdashkova, L. P.) On radical distributive functors. (Russian. Russian summary) **2001j:18005**
Rhineghost, Y. T. The functor that wouldn't be. (*see* **2001k:00022**)
— The emergence of functors. (*see* **2001k:00022**)
Richter, Günther Coreflectivity of E-monads and algebraic hulls. (English summary) **2001h:18001**
Zmrzlina, Alois Too many functors. (*see* **2001k:00022**)

Items with secondary classifications in 18A22

Adámek, Jiří (*with* Sousa, Lurdes; Tholen, Walter) Totality of product completions. (English summary) **2001b:18002**
Hartl, Urs T. The Picard functor. **2001g:14010**
Herrlich, Horst *see* **Schröder, Lutz, 2001i:18001** *and* **2001j:18003**
Kalapodi, A. (*with* Kontolatou, A.) Some remarks on r-ideal systems and categories of semigroups. (English summary) (*see* **2001j:00030**)
Kontolatou, A. *see* **Kalapodi, A., (2001j:00030)**
Lenisa, Marina (*with* Power, A. John; Watanabe, Hiroshi[6]) Distributivity for endofunctors, pointed and co-pointed endofunctors, monads and comonads. (English summary) **2001g:18006**
Li, Wei Stratified functors. (Chinese. English and Chinese summaries) **2001i:16022**
Power, A. John *see* **Lenisa, Marina et al., 2001g:18006**
Schröder, Lutz (*with* Herrlich, Horst) Free adjunction of morphisms. (English summary) **2001i:18001**
— (*with* Herrlich, Horst) Abstract initiality. (English summary) **2001j:18003**
Sousa, Lurdes *see* **Adámek, Jiřiet al., 2001b:18002**
Tholen, Walter *see* **Adámek, Jiřiet al., 2001b:18002**
Watanabe, Hiroshi[6] *see* **Lenisa, Marina et al., 2001g:18006**

18A23 Natural morphisms, dinatural morphisms

Babaev, Ali Avaz Equality of canonical morphisms in biclosed categories. (English summary)
(Panarina, V. K.) *see* **Babaev, Ali Avaz**

Items with secondary classifications in 18A23

Ensor, Andrew Formations, bihomomorphisms and natural transformations. (English summary) **2001g:08001**
Hamano, Masahiro Pontrjagin duality and full completeness for multiplicative linear logic (without Mix). (English summary) **2001j:03109**
Mobasher, B. (*with* Pigozzi, Don L.; Slutzki, Giora; Voutsadakis, G.) A duality theory for bilattices. (English summary) **2001k:06007**
Pigozzi, Don L. *see* **Mobasher, B. et al., 2001k:06007**
Slutzki, Giora *see* **Mobasher, B. et al., 2001k:06007**
Voutsadakis, G. *see* **Mobasher, B. et al., 2001k:06007**

18A25 Functor categories, comma categories

Irfan, M. On isomorphisms of comma categories.

Items with secondary classifications in 18A25

Del Valle, Alberto *see* **Saorín Castaño, M., 2001e:16003**
Khusainov, A. A. On the global dimension of the category of diagrams of abelian groups over a linearly ordered set. (Russian. English and Russian summaries) **2001h:18013**
Mandell, Michael A. (*with* May, J. P.; Schwede, Stefan; Shipley, Brooke E.) Model categories of diagram spectra. **2001k:55025**
May, J. P. *see* **Mandell, Michael A. et al., 2001k:55025**
Powell, Geoffrey M. L. On Artinian objects in the category of functors between $\mathbf{F}_2$-vector spaces. (English summary) **2001j:20079**
— The structure of the tensor product of $\mathbf{F}_2[-]$ with a finite functor between $\mathbf{F}_2$-vector spaces. (English and French summaries) **2001h:20065**
Saorín Castaño, M. (*with* Del Valle, Alberto) Covers and envelopes in functor categories. (English summary) **2001e:16003**
Schwede, Stefan *see* **Mandell, Michael A. et al., 2001k:55025**
Shipley, Brooke E. *see* **Mandell, Michael A. et al., 2001k:55025**

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Adámek, Jiří (*with* Rosický, Jiří) On sifted colimits and generalized varieties. (English summary) **2001m:18001**
Došen, Kosta (*with* Petrić, Zoran) The maximality of Cartesian categories. (English summary) **2001m:18002**
Edalat, Abbas Semi-pullbacks and bisimulation in categories of Markov processes. (English summary) **2001f:18001**
Katsov, Yefim On diagrams and flatness of functors. (English summary) **2001f:18002**
Petrić, Zoran *see* **Došen, Kosta, 2001m:18002**
Rosický, Jiří *see* **Adámek, Jiří, 2001m:18001**

Items with secondary classifications in 18A30

Adámek, Jiří (*with* Koubek, Václav; Velebil, Jiří) A duality between infinitary varieties and algebraic theories. (English summary) **2001i:18012**
Casas Miras, José Manuel (*with* Ladra González, Manuel) Colimits in the crossed modules category in Lie algebras. (English summary) **2001m:17038**
Dong, Xiaomin (*with* Tholen, Walter) Representation of relations by partial maps. (English summary) **2001e:18004**
Giuli, Eraldo (*with* Tholen, Walter) Openness with respect to a closure operator. (English summary) **2001i:18004**
Kalapodi, A. (*with* Kontolatou, A.) Some remarks on r-ideal systems and categories of semigroups. (English summary) (*see* **2001j:00030**)
Kontolatou, A. *see* **Kalapodi, A., (2001j:00030)**
Koubek, Václav *see* **Adámek, Jiřiet al., 2001i:18012**
Ladra González, Manuel *see* **Casas Miras, José Manuel, 2001m:17038**
Lee, Dae-Woong *see* **Lee, Hong-Jae, 2001e:55007**
Lee, Hong-Jae (*with* Lee, Dae-Woong) Derived limits of inverse systems over (pre)ordered sets. (English summary) **2001e:55007**
Prosmans, Fabienne Derived limits in quasi-abelian categories. (English summary) **2001b:18011**
Tholen, Walter *see* **Dong, Xiaomin, 2001e:18004** *and* **Giuli, Eraldo, 2001i:18004**
Velebil, Jiří *see* **Adámek, Jiřiet al., 2001i:18012**
Yi, Jian Xin Weak-colimits and their properties. (Chinese. English and Chinese summaries)

18A32 Factorization of morphisms, substructures, quotient structures, congruences, amalgams

Castellini, G. Connectedness classes. (English summary) **2001k:18002**
Giuli, Eraldo (*with* Tholen, Walter) Openness with respect to a closure operator. (English summary) **2001i:18004**
Holgate, D. B. Completion and closure. (French summary) **2001d:18001**
Janelidze, George (*with* Tholen, Walter) Functorial factorization, well-pointedness and separability. (English summary) **2001d:18002**
Tholen, Walter *see* **Janelidze, George, 2001d:18002** *and* **Giuli, Eraldo, 2001i:18004**

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Bunge, Marta (*with* Funk, Jonathon) On a bicomma object condition for KZ-doctrines. (English summary) **2001b:18006**
Funk, Jonathon *see* **Bunge, Marta, 2001b:18006**
Jayewardene, Romaine (*with* Wyler, Oswald) Categories of relations and functional relations. (English summary) **2001d:18004**
Richter, Günther Coreflectivity of E-monads and algebraic hulls. (English summary) **2001h:18001**
Stepanov, Aleksei Vladimirovich Some constructions of exact sequences. (English and Russian summaries) **2001k:18011**
Wyler, Oswald *see* **Jayewardene, Romaine, 2001d:18004**

18A35 Categories admitting limits (complete categories), functors preserving limits, completions

Adámek, Jiří (*with* Kelly, G. Max) $\mathscr{M}$-completeness is seldom monadic over graphs. (English summary) **2001f:18003**
Kelly, G. Max (*with* Lack, Stephen) On the monadicity of categories with chosen colimits. (English summary) **2001c:18002**
— *see also* **Adámek, Jiří, 2001f:18003**
Lack, Stephen *see* **Kelly, G. Max, 2001c:18002**
Mantovani, Sandra Preservation of limits and topological properties. (Italian. English summary) **2001f:18004**
Strecker, George E. Flows with respect to a functor. (English summary) **2001j:18006**

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Bauderon, Michel (*with* Jacquet, Hélène) Pullback as a generic graph rewriting mechanism. (English summary) **2001m:68080**
Carboni, A. (*with* Rosolini, Giuseppe) Locally Cartesian closed exact completions. (English summary) **2001f:18009**
Grandis, Marco Weak subobjects and the epi-monic completion of a category. (English summary) **2001g:18002**
Gumm, H. Peter (*with* Schröder, Tobias) Coalgebraic structure from weak limit preserving functors. (English summary) **2001g:18004**

Honsell, Furio (*with* Lenisa, Marina) Coalgebraic coinduction in (hyper)set-theoretic categories. (English summary) **2001f:18013**
Jacquet, Hélène *see* **Bauderon, Michel, 2001m:68080**
Lenisa, Marina *see* **Honsell, Furio, 2001f:18013**
Lowen, Robert (*with* Wuyts, P.) A complete classification of the simultaneously bireflective and bicoreflective subconstructs of approach spaces. (English summary) **2001d:54006**
Rosolini, Giuseppe *see* **Carboni, A., 2001f:18009**
Schröder, Tobias *see* **Gumm, H. Peter, 2001g:18004**
Vitale, Enrico M. Multi-bimodels. (French summary) **2001g:18007**
Wuyts, P. *see* **Lowen, Robert, 2001d:54006**

18A40 Adjoint functors (universal constructions, reflective subcategories, Kan extensions, etc.)

Adámek, Jiří (*with* Sousa, Lurdes) Constructions of solid hulls. (English summary) **2001k:18003**
Betti, Renato On categorical Frobenius reciprocity. **2001i:18005**
Del Valle, Alberto *see* **Rada, Juan et al., 2001j:18007**
Rada, Juan (*with* Saorín Castaño, M.; Del Valle, Alberto) Reflective subcategories. (English summary) **2001j:18007**
Rosolini, Giuseppe A note on Cauchy completeness for preorders. (English summary) **2001a:18001**
Rother, R. Universal objects in quasiconstructs. (English summary) **2001b:18003**
Salbany, Sergio On Eilenberg-Moore algebras induced by chains. (English summary) **2001a:18002**
Saorín Castaño, M. *see* **Rada, Juan et al., 2001j:18007**
Sousa, Lurdes *see* **Adámek, Jiří, 2001k:18003**
Vitale, Enrico M. Quasi-varieties of presheaves. (English summary) **2001d:18003**
Zaidi, S. M. A. On characterization of reflection and coreflection in categories. (English summary)

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Adámek, Jiří (*with* Sousa, Lurdes; Tholen, Walter) Totality of product completions. (English summary) **2001b:18002**
Angelsmark, Ola Constraints, adjunctions and (co)algebras. (English summary) (*see* **2001e:68006**)
Brown, Ronald (*with* Heyworth, Anne) Using rewriting systems to compute left Kan extensions and induced actions of categories. (English summary) **2001b:68067**
Brümmer, Guillaume (*with* Giuli, Eraldo; Holgate, D. B.) Direct reflections. (English summary) **2001j:18002**
Casacuberta, Carles On structures preserved by idempotent transformations of groups and homotopy types. (English summary) **2001i:55012**
Charalambous, M. G. Strong nearness frames having enough Cauchy filters. (English summary) **2001i:54005**
Davey, Brian A. (*with* Haviar, M.) A schizophrenic operation which aids the efficient transfer of strong dualities. (English summary) **2001k:08013**
— (*with* Willard, Ross) The dualisability of a quasi-variety is independent of the generating algebra. (English summary)
Dong, Xiaomin (*with* Tholen, Walter) Representation of relations by partial maps. (English summary) **2001e:18004**
Giuli, Eraldo *see* **Brümmer, Guillaume et al., 2001j:18002**
Haviar, M. *see* **Davey, Brian A., 2001k:08013**
Heyworth, Anne *see* **Brown, Ronald, 2001b:68067**
Holgate, D. B. Compactification and closure. (English summary) **2001j:18004**
— *see also* **Brümmer, Guillaume et al., 2001j:18002**
Hong, Sung Sa (*with* Kim, Young Kyoung) Cauchy complete nearness spaces. (English summary) **2001d:54022**
Hyndman, Jennifer (*with* Willard, Ross) An algebra that is dualizable but not fully dualizable. (English summary) **2001b:08015**
Janelidze, George (*with* Tholen, Walter) Functorial factorization, well-pointedness and separability. (English summary) **2001d:18002**
Kasangian, Stefano (*with* Kelly, G. Max; Vighi, Veronica) A bicategorical approach to information flow and security. (English summary) **2001j:68034**
Katsov, Yefim On diagrams and flatness of functors. (English summary) **2001f:18002**
Kelly, G. Max *see* **Kasangian, Stefano et al., 2001j:68034**
Kemper, Ralf p-Banach spaces and p-totally convex spaces. (English summary) **2001b:46116**
— p-Banach spaces and p-totally convex spaces. II. (English summary) **2001i:46111**
Kim, Young Kyoung *see* **Hong, Sung Sa, 2001d:54022**
Lowen, Robert (*with* Wuyts, P.) A complete classification of the simultaneously bireflective and bicoreflective subconstructs of approach spaces. (English summary) **2001d:54006**
Picado, Jorge Two theorems of Efremovič in pointfree context. (English summary) **2001a:54038**
Preuß, Gerhard Completion of semiuniform convergence spaces. (English summary) **2001k:54002**
Rodriguez, José Luis (*with* Scevenels, Dirk) Iterating series of localization functors. (English summary) **2001k:55031**
Scevenels, Dirk *see* **Rodriguez, José Luis, 2001k:55031**
Sousa, Lurdes *see* **Adámek, Jiří et al., 2001b:18002**
Strecker, George E. Flows with respect to a functor. (English summary) **2001j:18006**
Tholen, Walter *see* **Adámek, Jiří et al., 2001b:18002**; **Janelidze, George, 2001d:18002** *and* **Dong, Xiaomin, 2001e:18004**
Trnková, Věra Spaces without nonconstant maps into Y. (English summary) **2001j:54009**
Vighi, Veronica *see* **Kasangian, Stefano et al., 2001j:68034**
Willard, Ross *see* **Hyndman, Jennifer, 2001b:08015** *and* **Davey, Brian A.**
Wuyts, P. *see* **Lowen, Robert, 2001d:54006**

18A99 None of the above, but in this section

Diers, Yves Finitely coordinated and finitely copresentable affine algebraic sets. (English summary) **2001g:18003**
Eppendahl, A. Coalgebra-to-algebra morphisms. (English summary) **2001e:18003**
Mac Lane, Saunders Categorical foundations of the protean character of mathematics. (*see* **2001f:03014**)
Marquis, Jean-Pierre Category theory and structuralism in mathematics: syntactical considerations. (*see* **2001f:03014**)
Pedicchio, M. Cristina (*with* Rosický, Jiří) Comparing coequalizer and exact completions. (English summary) **2001b:18004**
Rosický, Jiří *see* **Pedicchio, M. Cristina, 2001b:18004**
Schanuel, Stephen H. Objective number theory and the retract chain condition. (English summary) **2001f:18005**
Sibert, Herve Automorphic objects in categories. (Russian. Russian summary) **2001i:18006**

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Al-Ali, M. I. M. M. (*with* Brown, Ronald; Morris, Ifor; Shrimpton, J.; Wensley, Christopher D.) Graphs of morphisms of graphs. **2001j:18010**
Brown, Ronald *see* **Al-Ali, M. I. M. M. et al., 2001j:18010**
Davey, Brian A. (*with* Idziak, Paweł M.; Lampe, William A.; McNulty, George F.) Dualizability and graph algebras. (English summary) **2001a:08001**
Echterhoff, Siegfried (*with* Kaliszewski, S.; Quigg, John; Raeburn, Iain) Naturality and induced representations. (English summary) **2001j:46101**
Goguen, Joseph *see* **Roşu, Grigore, 2001m:03070**
Hermida, Claudio (*with* Makkai, Michael; Power, A. John) On weak higher dimensional categories. I. (English summary) **2001g:18008**
Idziak, Paweł M. *see* **Davey, Brian A. et al., 2001a:08001**
Kaliszewski, S. *see* **Echterhoff, Siegfried et al., 2001j:46101**
Lampe, William A. *see* **Davey, Brian A. et al., 2001a:08001**
Makkai, Michael *see* **Hermida, Claudio et al., 2001g:18008**
McNulty, George F. *see* **Davey, Brian A. et al., 2001a:08001**
Morris, Ifor *see* **Al-Ali, M. I. M. M. et al., 2001j:18010**
Pedicchio, M. Cristina (*with* Wood, Richard James) A note on effectively projective objects. (English summary)
Power, A. John *see* **Hermida, Claudio et al., 2001g:18008**
Quigg, John *see* **Echterhoff, Siegfried et al., 2001j:46101**
Raeburn, Iain *see* **Echterhoff, Siegfried et al., 2001j:46101**
Roşu, Grigore (*with* Goguen, Joseph) On equational Craig interpolation. (English summary) **2001m:03070**
Shrimpton, J. *see* **Al-Ali, M. I. M. M. et al., 2001j:18010**
Tews, Hendrik Coalgebras for binary methods. (English summary) **2001f:68022**
Wensley, Christopher D. *see* **Al-Ali, M. I. M. M. et al., 2001j:18010**
Wood, Richard James *see* **Pedicchio, M. Cristina**

18Bxx Special categories

18B05 Category of sets, characterizations [see also 03–XX]

Bénabou, Jean Une analogie en théorie des catégories. (English and French summaries) [An analogy in category theory] **2001h:18002**

Items with secondary classifications in 18B05

Rhinegbost, Y. T. The functor that wouldn't be. (*see* **2001k:00022**)
— The emergence of functors. (*see* **2001k:00022**)
Zmrzlina, Alois Too many functors. (*see* **2001k:00022**)

18B10 Category of relations, additive relations

Dong, Xiaomin (*with* Tholen, Walter) Representation of relations by partial maps. (English summary) **2001e:18004**
Jayewardene, Romaine (*with* Wyler, Oswald) Categories of relations and functional relations. (English summary) **2001d:18004**
Tholen, Walter *see* **Dong, Xiaomin, 2001e:18004**
Winter, Michael A pseudo representation theorem for various categories of relations. (English summary) **2001b:18005**
Wyler, Oswald *see* **Jayewardene, Romaine, 2001d:18004**

Items with secondary classifications in 18B10

Plotkin, B. I. Algebra, categories and databases. **2001e:08001**

18B15 Embedding theorems, universal categories [see also 18E20]

Items with secondary classifications in 18B15

Nešetřil, Jaroslav Aspects of structural combinatorics (graph homomorphisms and their use). (English summary) **2001b:05108**
Pultr, A. (*with* Sichler, J.; Trnková, Věra) Homomorphisms of complete distributive lattices. (English summary) **2001m:06012**
Rother, R. Universal objects in quasiconstructs. (English summary) **2001b:18003**
Sichler, J. *see* **Pultr, A. et al., 2001m:06012**
Trnková, Věra *see* **Pultr, A. et al., 2001m:06012**

18B20 Categories of machines, automata, operative categories [see also 03D05, 68Qxx]

Rudeanu, Sergiu On the behaviour of semiautomata. (English summary) **2001i:18007**

Items with secondary classifications in 18B20

Bednarczyk, Marek A. (*with* Borzyszkowski, Andrzej M.; Somla, Rafal) Finite completeness of categories of Petri nets. (English summary) **2001m:68133**

Borzyszkowski, Andrzej M. *see* **Bednarczyk, Marek A. et al., 2001m:68133**
Kinoshita, Yoshiki (*with* Power, A. John) Data refinement and algebraic structure. (English summary) **2001f:68093**
Mateus, Paulo (*with* Sernadas, Amílcar; Sernadas, Cristina) Precategories for combining probabilistic automata. (English summary) **2001f:68074**
Power, A. John *see* **Kinoshita, Yoshiki, 2001f:68093**
Sernadas, Amílcar *see* **Mateus, Paulo et al., 2001f:68074**
Sernadas, Cristina *see* **Mateus, Paulo et al., 2001f:68074**
Somla, Rafał *see* **Bednarczyk, Marek A. et al., 2001m:68133**

18B25 Topoi [see also 03G30]

Awodey, Steven Sheaf representation for topoi. (English summary) **2001a:18003**
Bunge, Marta (*with* Funk, Jonathon) On a bicomma object condition for KZ-doctrines. (English summary) **2001b:18006**
Du, Chun Juan *see* **Yuan, Xue Hai**
Dubuc, Eduardo J. (*with* Zilber, Jorge C.) Inverse function theorems for Banach spaces in a topos. (French summary) **2001f:18006**
Español, Luis (*with* Lambán Pardo, Laureano A.) A tensor-hom adjunction in a topos related to vector topologies and bornologies. (English summary) **2001f:18007**
Funk, Jonathon *see* **Bunge, Marta, 2001b:18006**
Gumm, H. Peter (*with* Schröder, Tobias) Coalgebraic structure from weak limit preserving functors. (English summary) **2001g:18004**
Johnstone, Peter An "unsitely" result on atomic morphisms. (English summary) **2001d:18005**
Kennison, John F. Solution manifolds for systems of differential equations. (English summary) **2001g:18005**
Kim, Ig Sung A study on the Boolean algebras in the Fraenkel-Mostowski topos. (English summary) **2001i:18008**
Lambán Pardo, Laureano A. *see* **Español, Luis, 2001f:18007**
Lawvere, F. William Comments on the development of topos theory. **2001i:18009**
Moerdijk, Ieke (*with* Vermeulen, J. J. C.) Proof of a conjecture of A. Pitts. (English summary) **2001c:18003**
— (*with* Vermeulen, J. J. C.) Proper maps of toposes. **2001j:18008**
Schröder, Tobias *see* **Gumm, H. Peter, 2001g:18004**
Street, Ross The petit topos of globular sets. (English summary) **2001f:18008**
Vermeulen, J. J. C. *see* **Moerdijk, Ieke, 2001c:18003** *and* **2001j:18008**
Yuan, Xue Hai The definitions of middle object and weak topos. (Chinese. English and Chinese summaries)
— (*with* Du, Chun Juan) Fuzzy objects and fuzzy category in a topos. (Chinese. English and Chinese summaries)
Zilber, Jorge C. *see* **Dubuc, Eduardo J., 2001f:18006**

Items with secondary classifications in 18B25

Betti, Renato On categorical Frobenius reciprocity. **2001i:18005**
Bunge, Marta (*with* Niefield, Susan) Exponentiability and single universes. (English summary) **2001f:18020**
Butterfield, Jeremy *see* **Hamilton, James[1] et al., 2001k:81016**
Coniglio, Marcelo E. Categorical logic with partial elements. (English summary) **2001b:03074**
Dong, Xiaomin (*with* Tholen, Walter) Representation of relations by partial maps. (English summary) **2001e:18004**
Èsakia, Leo (*with* Jibladze, Mamuka; Pataraya, D. A.) Scattered toposes. (English summary) **2001g:03121**
Hamilton, James[1] (*with* Isham, C. J.; Butterfield, Jeremy) Topos perspective on the Kochen-Specker theorem. III. Von Neumann algebras as the base category. (English summary) **2001k:81016**
Isham, C. J. *see* **Hamilton, James[1] et al., 2001k:81016**
Jibladze, Mamuka *see* **Èsakia, Leo et al., 2001g:03121**
Kim, Young Sun *see* **Min, Kyung Chan et al., 2001c:18004**
Kudryavtsev, V. V. On a functional system of sheaves of logical functions. (Russian. English and Russian summaries) **2001m:03050**
Min, Kyung Chan (*with* Kim, Young Sun; Park, Jin Won) Fibrewise exponential laws in a quasitopos. (French summary) **2001c:18004**
Moerdijk, Ieke (*with* Palmgren, Erik) Wellfounded trees in categories. (English summary) **2001j:03016**
Niefield, Susan Exponentiable morphisms: posets, spaces, locales, and Grothendieck toposes. (English summary) **2001k:18007**
— *see also* **Bunge, Marta, 2001f:18020**
Nishimura, Hirokazu Supersmooth topoi. (English summary) **2001g:58008**
Palmgren, Erik *see* **Moerdijk, Ieke, 2001j:03016**
Park, Jin Won *see* **Min, Kyung Chan et al., 2001c:18004**
Pataraya, D. A. *see* **Èsakia, Leo et al., 2001g:03121**
Than, Cho Cho (*with* Tsujishita, Toru) Sheaves on the category of periodic observation. (English summary) **2001i:18020**
Tholen, Walter *see* **Dong, Xiaomin, 2001e:18004**
Tsujishita, Toru *see* **Than, Cho Cho, 2001i:18020**
Vermeulen, J. J. C. A note on stably closed maps of locales. (English summary) **2001m:06019**
Zafiris, Elias Probing quantum structure with Boolean localization systems. (English summary) **2001k:81018**

18B30 Categories of topological spaces and continuous mappings [see also 54–XX]

Banaschewski, Bernhard (*with* Hong, Sung Sa) Extension by continuity in pointfree topology. (English summary) **2001k:18004**
Barr, Michael On $*$-autonomous categories of topological vector spaces. (English and French summaries) **2001k:18005**
Carboni, A. (*with* Rosolini, Giuseppe) Locally Cartesian closed exact completions. (English summary) **2001f:18009**
Clementino, Maria Manuel (*with* Giuli, Eraldo; Tholen, Walter) What is a quotient map with respect to a closure operator? (English summary) **2001m:18003**
Giuli, Eraldo *see* **Clementino, Maria Manuel et al., 2001m:18003**
Hong, Sung Sa *see* **Banaschewski, Bernhard, 2001k:18004**
Kim, Young Sun *see* **Min, Kyung Chan et al., 2001c:18004**
Lowen-Colebunders, E. (*with* Verbeeck, C.) Exponential objects in coreflective or quotient reflective subconstructs: a comparison. (English summary) **2001e:18005**
Min, Kyung Chan (*with* Kim, Young Sun; Park, Jin Won) Fibrewise exponential laws in a quasitopos. (French summary) **2001c:18004**
Nauwelaerts, M. Some Cartesian closed topological constructs in the category of semi-approach uniform limit spaces. (English summary) **2001h:18003**
Park, Jin Won *see* **Min, Kyung Chan et al., 2001c:18004**
Plewe, Till Quotient maps of locales. (English summary) **2001j:18009**
— Higher order dissolutions and Boolean coreflections of locales. (English summary) **2001f:18010**
Rosolini, Giuseppe *see* **Carboni, A., 2001f:18009**
Šekutkovski, Nikita Maps between inverse and coherent systems. (English and Macedonian summaries) **2001h:18004**
Sioen, M. On the epireflectivity of the Wallman-Shanin-type compactification for approach spaces. (English summary) **2001h:18005**
Tholen, Walter *see* **Clementino, Maria Manuel et al., 2001m:18003**
Van der Voorde, Ann A categorical approach to T_1 separation and the product of state property systems. (English summary) **2001f:18011**
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Teleiko, A. (*with* Zarichnyĭ, M. M.) ★ Categorical topology of compact Hausdorff spaces. **2001k:54018**
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18B35 Preorders, orders and lattices (viewed as categories) [see also 06–XX]

Coniglio, Marcelo E. (*with* Miraglia, Francisco) Modules in the category of sheaves over quantales. (English summary) **2001m:18004**
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18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [see also 20Axx, 20L05, 20Mxx]

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18B99 None of the above, but in this section

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Rosselló-Llompart, Francesc *see* **Moyà, Manuel et al., 2001b:08008**
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Wood, Richard James *see* **Pedicchio, M. Cristina**
Zakharov, Valeriĭ Konstantinovich (*with* Mikhalëv, A. V.) The MacLane problem on set-theoretical foundations for the category theory. **2001m:03025**

18Cxx Categories and theories

18C05 Equational categories [see also 03C05, 08C05]

Diers, Yves Affine algebraic varieties relative to an algebraic theory. (English summary) **2001k:18006**
Porst, Hans-E. Minimal generators in varieties. (English summary) **2001i:18011**
— (*with* Rosický, Jiří) Varieties without minimal generators. (English summary) **2001m:18005**
Rosický, Jiří *see* **Porst, Hans-E., 2001m:18005**

Items with secondary classifications in 18C05

Bloom, S. L. (*with* Ésik, Zoltán; Labella, Anna; Manes, E. G.) Iteration 2-theories. (English summary) **2001m:18006**
Ésik, Zoltán *see* **Bloom, S. L. et al., 2001m:18006**
Kemper, Ralf p-Banach spaces and p-totally convex spaces. (English summary) **2001b:46116**
— p-Banach spaces and p-totally convex spaces. II. (English summary) **2001i:46111**
Labella, Anna *see* **Bloom, S. L. et al., 2001m:18006**
Manes, E. G. *see* **Bloom, S. L. et al., 2001m:18006**
Pedicchio, M. Cristina Algebraic theories. **2001j:18012**

Poomsa-Ard, Tiang Hyperidentities in associative graph algebras. (English summary) **2001m:08010**
Porst, Hans-E. Hu's primal algebra theorem revisited. (English summary)
Richter, Günther Coreflectivity of E-monads and algebraic hulls. (English summary) **2001h:18001**
Taylor, Walter Spaces and equations. (English summary) **2001g:08005**

18C10 Theories (e.g. algebraic theories), structure, and semantics [see also 03G30]

Adámek, Jiří (*with* Borceux, Francis) Morita equivalence of sketches. (English summary) **2001i:18013**
— (*with* Koubek, Václav; Velebil, Jiří) A duality between infinitary varieties and algebraic theories. (English summary) **2001i:18012**
Bloom, S. L. (*with* Ésik, Zoltán; Labella, Anna; Manes, E. G.) Iteration 2-theories. (English summary) **2001m:18006**
Borceux, Francis *see* **Adámek, Jiří, 2001i:18013**
Brady, Geraldine (*with* Trimble, Todd H.) A categorical interpretation of C. S. Peirce's propositional logic Alpha. (English summary) **2001d:18006**
Ésik, Zoltán *see* **Bloom, S. L. et al., 2001m:18006**
Faro, Emilio (*with* Kelly, G. Max) On the canonical algebraic structure of a category. (English summary) **2001f:18012**
Kelly, G. Max *see* **Faro, Emilio, 2001f:18012**
Koubek, Václav *see* **Adámek, Jiřiet al., 2001i:18012**
Labella, Anna *see* **Bloom, S. L. et al., 2001m:18006**
Manes, E. G. *see* **Bloom, S. L. et al., 2001m:18006**
Pedicchio, M. Cristina Algebraic theories. **2001j:18012**
Trimble, Todd H. *see* **Brady, Geraldine, 2001d:18006**
Velebil, Jiří *see* **Adámek, Jiřiet al., 2001i:18012**
Yanofsky, Noson S. The syntax of coherence. (French summary) **2001h:18007**

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Coniglio, Marcelo E. Categorical logic with partial elements. (English summary) **2001b:03074**
Corradini, Andrea (*with* Gadducci, Fabio) An algebraic presentation of term graphs, via gs-monoidal categories. (English summary) **2001h:68119**
— (*with* Gadducci, Fabio) Rewriting on cyclic structures: equivalence between the operational and the categorical description. (English summary) **2001c:68074**
Diers, Yves Affine algebraic varieties relative to an algebraic theory. (English summary) **2001k:18006**
Durán, Francisco (*with* Meseguer, José) Structured theories and institutions. (English summary) **2001e:68123**
Errington, Lindsay On the semantics of message passing processes. (English summary) **2001c:68110**
Ésik, Zoltán The power of the group-identities for iteration. (English summary) **2001m:68127**
Gadducci, Fabio (*with* Heckel, Reiko; Llabrés, Mercé) A bi-categorical axiomatisation of concurrent graph rewriting. (English summary) **2001e:68092**
— *see also* **Corradini, Andrea, 2001c:68074** *and* **2001h:68119**
Heckel, Reiko *see* **Gadducci, Fabio et al., 2001e:68092**
Hildebrandt, Thomas T. A fully abstract presheaf semantics of SCCS with finite delay. (English summary) **2001e:68111**
Honsell, Furio (*with* Lenisa, Marina) Coalgebraic coinduction in (hyper)set-theoretic categories. (English summary) **2001f:18013**
Huet, Gérard (*with* Saïbi, Amokrane) Constructive category theory. **2001d:03024**
Lenisa, Marina *see* **Honsell, Furio, 2001f:18013**
Llabrés, Mercé *see* **Gadducci, Fabio et al., 2001e:68092**
Meseguer, José *see* **Durán, Francisco, 2001e:68123**
Porst, Hans-E. Equivalence for varieties in general and for $\mathscr{BOOL}$ in particular. (English summary) **2001i:08011**
Power, A. John (*with* Turi, Daniele) A coalgebraic foundation for linear time semantics. (English summary) **2001e:68112**
Rößiger, Martin Languages for coalgebras on datafunctors. (English summary) **2001a:03049**
Saïbi, Amokrane *see* **Huet, Gérard, 2001d:03024**
Tews, Hendrik Coalgebras for binary methods. (English summary) **2001f:68022**
Turi, Daniele *see* **Power, A. John, 2001e:68112**

18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [see also 18Gxx]

Bucalo, Anna (*with* Führmann, Carsten; Simpson, Alex) Equational lifting monads. (English summary) **2001e:18006**
Führmann, Carsten *see* **Bucalo, Anna et al., 2001e:18006**
Simpson, Alex *see* **Bucalo, Anna et al., 2001e:18006**

Items with secondary classifications in 18C15

Adámek, Jiří (*with* Kelly, G. Max) $\mathscr{M}$-completeness is seldom monadic over graphs. (English summary) **2001f:18003**
Beligiannis, Apostolos Cleft extensions of abelian categories and applications to ring theory. **2001h:18011**
Bunge, Marta (*with* Funk, Jonathon) On a bicomma object condition for KZ-doctrines. (English summary) **2001b:18006**
Deligiannis, Athanasios Ganea comonads. (English summary) **2001e:55003**
Faro, Emilio (*with* Kelly, G. Max) On the canonical algebraic structure of a category. (English summary) **2001f:18012**
Funk, Jonathon *see* **Bunge, Marta, 2001b:18006**
Kelly, G. Max (*with* Lack, Stephen) On the monadicity of categories with chosen colimits. (English summary) **2001c:18002**
— *see also* **Adámek, Jiří, 2001f:18003** *and* **Faro, Emilio, 2001f:18012**
Lack, Stephen *see* **Kelly, G. Max, 2001c:18002**
Livernet, Muriel On a plus-construction for algebras over an operad. (English summary) **2001a:19001**
Moore, David Jeffrey Fundamental structures in physics: a categorical approach. (English summary) **2001j:81056**
Richter, Günther Coreflectivity of E-monads and algebraic hulls. (English summary) **2001h:18001**
Salbany, Sergio On Eilenberg-Moore algebras induced by chains. (English summary) **2001a:18002**

18C20 Algebras and Kleisli categories associated with monads

Lenisa, Marina (*with* Power, A. John; Watanabe, Hiroshi[6]) Distributivity for endofunctors, pointed and co-pointed endofunctors, monads and comonads. (English summary) **2001g:18006**
Power, A. John *see* **Lenisa, Marina et al., 2001g:18006**
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Items with secondary classifications in 18C20

Bucalo, Anna (*with* Führmann, Carsten; Simpson, Alex) Equational lifting monads. (English summary) **2001e:18006**
Führmann, Carsten *see* **Bucalo, Anna et al., 2001e:18006**
Kemper, Ralf p-Banach spaces and p-totally convex spaces. (English summary) **2001b:46116**
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Pumplün, D. (*with* Röhrl, Helmut) Convexity theories. V. Extensions of absolutely and totally convex modules. (English summary) **2001k:52003**
Röhrl, Helmut *see* **Pumplün, D., 2001k:52003**
Shnider, Steve (*with* Van Osdol, Donovan H.) Operads as abstract algebras, and the Koszul property. (English summary) **2001h:18010**
Simpson, Alex *see* **Bucalo, Anna et al., 2001e:18006**
Teleiko, A. (*with* Zarichnyĭ, M. M.) ★ Categorical topology of compact Hausdorff spaces. **2001k:54018**
Van Osdol, Donovan H. *see* **Shnider, Steve, 2001h:18010**
Zarichnyĭ, M. M. *see* **Teleiko, A., 2001k:54018**

18C30 Sketches and generalizations

Kinoshita, Yoshiki (*with* Power, A. John; Takeyama, Makoto) Sketches. (English summary) **2001b:18008**
Power, A. John *see* **Kinoshita, Yoshiki et al., 2001b:18008**
Takeyama, Makoto *see* **Kinoshita, Yoshiki et al., 2001b:18008**
Vitale, Enrico M. Multi-bimodels. (French summary) **2001g:18007**

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Oriat, Catherine Étude des specifications modulaires: constructions de colimites finies, diagrammes, isomorphismes. I. (English and French summaries) [Study of modular specifications: construction of finite colimits, diagrams, isomorphisms. I] **2001g:68066**
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18C35 Accessible and locally presentable categories

Adámek, Jiří *see* **Hébert, Michel et al., 2001j:18013**
Daneshgar, Amir (*with* Hashemi, Amir) A general model for I/O system theory. (English summary)
Hashemi, Amir *see* **Daneshgar, Amir**
Hébert, Michel (*with* Adámek, Jiří; Rosický, Jiří) More on orthogonality in locally presentable categories. (French summary) **2001j:18013**
Pedicchio, M. Cristina (*with* Wood, Richard James) A simple characterization of theories of varieties. (English summary) **2001j:18014**
— (*with* Rosický, Jiří) Localizations of varieties and quasivarieties. (English summary) **2001e:18007**
Rosický, Jiří *see* **Pedicchio, M. Cristina, 2001e:18007** *and* **Hébert, Michel et al., 2001j:18013**
Wood, Richard James *see* **Pedicchio, M. Cristina, 2001j:18014**

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Diers, Yves Finitely coordinated and finitely copresentable affine algebraic sets. (English summary) **2001g:18003**

18C50 Categorical semantics of formal languages [see also 68Q55, 68Q65]

Backhouse, Roland (*with* Hoogendijk, Paul) Final dialgebras: from categories to allegories. (English summary) **2001e:18008**
Honsell, Furio (*with* Lenisa, Marina) Coalgebraic coinduction in (hyper)set-theoretic categories. (English summary) **2001f:18013**
Hoogendijk, Paul *see* **Backhouse, Roland, 2001e:18008**
Lenisa, Marina *see* **Honsell, Furio, 2001f:18013**

Items with secondary classifications in 18C50

Angelsmark, Ola Constraints, adjunctions and (co)algebras. (English summary) (*see* **2001e:68006**)
Bednarczyk, Marek A. (*with* Borzyszkowski, Andrzej M.; Somla, Rafał) Finite completeness of categories of Petri nets. (English summary) **2001m:68133**
Borzyszkowski, Andrzej M. *see* **Bednarczyk, Marek A. et al., 2001m:68133**

Corradini, Andrea *see* **Heckel, Reiko et al., 2001m:68086**
Diaconescu, Răzvan Category-based constraint logic. (English summary) **2001d:68048**
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Ghani, Neil (*with* de Paiva, V. C. V.; Ritter, Eike) Categorical models of explicit substitutions. (English summary) (*see* **2001e:68009**)
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Streicher, Thomas (*with* Reus, Bernhard) Classical logic, continuation semantics and abstract machines. (English summary) **2001b:68083**
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18Dxx Categories with structure

18D05 Double categories, 2-categories, bicategories and generalizations

Batanin, Mikhail A. (*with* Street, Ross) The universal property of the multitude of trees. (English summary) **2001f:18014**
Bondarenko, V. M. Classification of objects of the categories $\Lambda_{\mathfrak{Sk},f}$ of finite type. (Russian) **2001b:18009**
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Labella, Anna *see* **Bloom, S. L. et al., 2001m:18006**
Mackaay, Marco Finite groups, spherical 2-categories, and 4-manifold invariants. (English summary) **2001f:57034**
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Street, Ross The petit topos of globular sets. (English summary) **2001f:18008**
Tambara, D. A duality for finite group actions on tensor categories.
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18D10 Monoidal categories (= multiplicative categories), symmetric monoidal categories, braided categories [see also 19D23]

Akbarov, S. S. Stereotype group algebras. (Russian) **2001d:18007**
Alonso Alvarez, J. N. (*with* Fernández Vilaboa, J. M.) Cleft extensions in braided categories. (English summary) **2001f:18016**
Barr, Michael $*$-autonomous categories: once more around the track. (English summary) **2001a:18006**
Beggs, Edwin J. Non-trivially associated tensor categories and left coset representatives. (English summary) (*see* **2001i:00038**)
Bruguières, Alain Tresses et structure entière sur la catégorie des représentations de SL_N quantique. (English summary) [Braids and integral structure on the quantum category of SL_N representations] **2001d:18008**
— Catégories prémodulaires, modularisations et invariants des variétés de dimension 3. (English summary) [Premodular categories, modularizations and invariants of 3-manifolds] **2001d:18009**
Cai, Chuan Ren (*with* Jiang, Baoxin) Symmetric centres of braided monoidal categories. (English summary) **2001g:18009**
Crans, Sjoerd E. On braidings, syllapses and symmetries. (French summary) **2001c:18005a**
— Erratum: "On braidings, syllapses and symmetries". **2001c:18005b**
Davydov, Alexsei A. On some Hochschild cohomology classes of fusion algebras. (English summary) **2001d:18010**
Fernández Vilaboa, J. M. *see* **Alonso Alvarez, J. N., 2001f:18016**
Fröhlich, Albrecht (*with* Wall, C. T. C.) Equivariant Brauer groups. **2001m:18008**
Hines, P. M. The categorical theory of self-similarity. (English summary) **2001a:18007**
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Lack, Stephen A coherent approach to pseudomonads. (English summary) **2001f:18017**
McCrudden, Paddy Balanced coalgebroids. (English summary) **2001f:18018**
Moens, M.-A. (*with* Vitale, Enrico M.) Groupoids and the Brauer group. (French summary) **2001h:18009**
Müger, Michael Galois theory for braided tensor categories and the modular closure. (English summary) **2001a:18008**
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Schwede, Stefan (*with* Shipley, Brooke E.) Algebras and modules in monoidal model categories. **2001c:18006**
Shipley, Brooke E. *see* **Schwede, Stefan, 2001c:18006**
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Song, Yongjin Ribbon category and mapping class groups. (English summary) **2001e:18009**
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— Representations of tensor categories with fusion rules of self-duality for abelian groups. (English summary) **2001j:18015**
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Abramsky, Samson (*with* Blute, Richard; Panangaden, Prakash) Nuclear and trace ideals in tensored $*$-categories. (English summary) **2001h:47116**
Albuquerque, Helena (*with* Majid, Shahn) Z_n-quasialgebras. (English summary) **2001h:17006**
Andruskiewitsch, Nicolás (*with* Graña, Matías) Braided Hopf algebras over non-abelian finite groups. (English and Spanish summaries) **2001b:16039**
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Bichon, Julien Galois reconstruction of finite quantum groups. (English summary) **2001f:16071**
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Böckenhauer, Jens (*with* Evans, David E.) Modular invariants from subfactors: Type I coupling matrices and intermediate subfactors. (English summary) **2001g:46142**
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Corradini, Andrea (*with* Gadducci, Fabio) An algebraic presentation of term graphs, via gs-monoidal categories. (English summary) **2001h:68119**
Daneshgar, Amir (*with* Hashemi, Amir) A general model for I/O system theory. (English summary)
Doi, Yukio (*with* Takeuchi, Mitsuhiro) Bi-Frobenius algebras. (English summary) **2001k:16071**
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Hayashi, Tomohiro[2] Harmonic function spaces of probability measures on fusion algebras. (English summary) **2001e:46107**
Hermida, Claudio Representable multicategories. (English summary) **2001m:18007**
Jay, C. B. *see* **Moggi, Eugenio et al., (2001d:68006)**
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Lychagin, Valentin (*with* Prasolov, Andrei V.) Products and quantizations in K-theory of braiding-commutative algebras. (English summary) **2001c:19001**
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Masuoka, Akira Cocycle deformations and Galois objects for some cosemisimple Hopf algebras of finite dimension. (English summary) **2001i:16069**
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Murawski, A. S. (*with* Ong, C.-H. L.) Exhausting strategies, joker games and full completeness for IMLL with unit (preliminary version). (English summary) (*see* **2001d:68006**)
Ong, C.-H. L. *see* **Murawski, A. S., (2001d:68006)**
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Pareigis, Bodo Symmetric Yetter-Drinfeld categories are trivial.
Paseka, Jan Hilbert Q-modules and nuclear ideals in the category of $\bigvee$-semilattices with a duality. (English summary) **2001k:03143**
Prasolov, Andrei V. *see* **Lychagin, Valentin, 2001c:19001**
Schauenburg, Peter Duals and doubles of quantum groupoids ($\times_R$-Hopf algebras). (English summary) **2001i:16073**
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Wang, Shuan Hong Braided monoidal categories of twisted smash products and the twisted smash products over braided monoidal categories. (Chinese. English and Chinese summaries) **2001d:16063**
Winter, Michael A pseudo representation theorem for various categories of relations. (English summary) **2001b:18005**

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Beke, Tibor Sheafifiable homotopy model categories. (English summary) **2001i:18015**
Bunge, Marta (*with* Niefield, Susan) Exponentiability and single universes. (English summary) **2001f:18020**
Lambek, Joachim An equational variant of Lawvere's natural numbers object. (English summary) **2001g:18010**
Niefield, Susan Exponentiable morphisms: posets, spaces, locales, and Grothendieck toposes. (English summary) **2001k:18007**
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Bespalov, Yu. N. (*with* Kerler, Thomas; Lyubashenko, Volodymyr; Turaev, Vladimir) Integrals for braided Hopf algebras. (English summary) **2001i:16063**
Brady, Geraldine (*with* Trimble, Todd H.) A categorical interpretation of C. S. Peirce's propositional logic Alpha. (English summary) **2001d:18006**
Brown, Ronald *see* **Al-Ali, M. I. M. M. et al., 2001j:18010**
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Došen, Kosta (*with* Petrić, Zoran) The maximality of Cartesian categories. (English summary) **2001m:18002**
Gillet, Henri (*with* Soulé, Christophe) Filtrations on higher algebraic K-theory. **2001i:19005**
Gylys, R. P. Involutive and relational quantaloids. (English and Lithuanian summaries) **2001i:18010**
Hamano, Masahiro Pontrjagin duality and full completeness for multiplicative linear logic (without Mix). (English summary) **2001j:03109**
Kerler, Thomas *see* **Bespalov, Yu. N. et al., 2001i:16063**
Künzi, Hans-Peter A. (*with* Watson, W. Stephen) A problem about Banach balls. (English summary) **2001h:46015**
Kurz, Alexander (*with* Pattinson, Dirk) Notes on coalgebras, cofibrations and concurrency. (English summary) **2001h:68106**
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18D20 Enriched categories (over closed or monoidal categories)

Danilov, N. Yu. Enriched categories. (Russian. Russian summary) (*see* **2001f:93006**)
Pultr, A. (*with* Tholen, Walter) Localic enrichments of categories. (French summary) **2001i:18016**
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— Descent theory of locally internal categories. (English summary) **2001f:18021**
Faro, Emilio (*with* Kelly, G. Max) On the canonical algebraic structure of a category. (English summary) **2001f:18012**
Kelly, G. Max (*with* Lack, Stephen) On the monadicity of categories with chosen colimits. (English summary) **2001c:18002**
— *see also* **Faro, Emilio, 2001f:18012**
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Song, Yongjin Ribbon category and mapping class groups. (English summary) **2001e:18009**
Worrell, James Coinduction for recursive data types: partial orders, metric spaces and Ω-categories. (English summary) **2001h:68095**

18D30 Fibered categories

Betti, Renato Descent theory of locally internal categories. (English summary) **2001f:18021**
Cegarra, A. M. (*with* Garzón, Antonio R.; R.-Grandjeán L.-Valcárcel, Alfredo) Graded extensions of categories. (English summary) **2001f:18022**
Garzón, Antonio R. *see* **Cegarra, A. M. et al., 2001f:18022**
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Bourn, Dominique The structural nature of the nerve functor for n-groupoids. (English summary) **2001e:18014**
— n-groupoids from n-truncated simplicial objects as a solution to a universal problem. (English summary) **2001f:18026**

18D35 Structured objects in a category (group objects, etc.)

Carrasco, Pilar (*with* Garzón, Antonio R.; Miranda, Jesús G.) Schreier theory for singular extensions of categorical groups and homotopy classification. (English summary) **2001b:18010**
Garzón, Antonio R. *see* **Carrasco, Pilar et al., 2001b:18010**
Gran, Marino Central extensions and internal groupoids in Maltsev categories. (English summary) **2001m:18010**
Miranda, Jesús G. *see* **Carrasco, Pilar et al., 2001b:18010**
Mutlu, Ali (*with* Porter, Timothy) Freeness conditions for crossed squares and squared complexes. (English summary) **2001j:18016**
Porter, Timothy *see* **Mutlu, Ali, 2001j:18016**

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Alp, Murat (*with* Wensley, Christopher D.) Enumeration of cat^1-groups of low order. (English summary) **2001e:18002**
Bespalov, Yu. N. (*with* Kerler, Thomas; Lyubashenko, Volodymyr; Turaev, Vladimir) Integrals for braided Hopf algebras. (English summary) **2001i:16063**
Castellini, G. Connectedness classes. (English summary) **2001k:18002**
Doi, Yukio (*with* Takeuchi, Mitsuhiro) Bi-Frobenius algebras. (English summary) **2001k:16071**
Gilbert, N. D. The low-dimensional homology of crossed modules. (English summary) **2001i:20109**
Gylys, R. P. Involutive and relational quantaloids. (English and Lithuanian summaries) **2001i:18010**
Kerler, Thomas *see* **Bespalov, Yu. N. et al., 2001i:16063**
Lyubashenko, Volodymyr *see* **Bespalov, Yu. N. et al., 2001i:16063**
Strickland, N. P. $K(N)$-local duality for finite groups and groupoids. (English summary) **2001h:55006**
Takeuchi, Mitsuhiro *see* **Doi, Yukio, 2001k:16071**
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18D50 Operads [see also 55P48]

Chataur, David Un modèle algébrique de la suite spectrale de Leray. (English and French summaries) [An algebraic model of the Leray spectral sequence] **2001m:18011**
Fiorenza, Domenico An introduction to operads. (*see* **2001k:53178**)
Goerss, Paul G. (*with* Hopkins, Michael J.) André-Quillen (co)-homology for simplicial algebras over simplicial operads. (English summary) **2001m:18012**
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Kluge, Liivi (*with* Paal, Eugen; Stasheff, Jim) Invitation to composition. (English summary) **2001f:18023**
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Gnedbaye, Allahtan Victor (*with* Wambst, Marc) Jordan triples and operads. (English summary) **2001f:17066**
Kopp, O. A. *see* **Tronin, S. N., 2001m:16048**
Livernet, Muriel On a plus-construction for algebras over an operad. (English summary) **2001a:19001**
Manin, Yuriĭ Ivanovich ★ Frobenius manifolds, quantum cohomology, and moduli spaces. (English summary) **2001g:53156**
Markl, Martin Homotopy algebras via resolutions of operads. **2001e:55013**
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Algebraic Geometry ★ Seminari di Geometria Algebrica. 1998–1999. [Algebraic Geometry Seminars. 1998–1999] **2001k:53178**

18D99 None of the above, but in this section

Blute, Richard (*with* Cockett, J. R. B.; Seely, R. A. G.) Feedback for linearly distributive categories: traces and fixpoints. (English summary) **2001g:18011**
Cockett, J. R. B. *see* **Blute, Richard et al., 2001g:18011**
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Hager, Anthony W. (*with* Martinez, Jorge[2]) Hulls for various kinds of α-completeness in Archimedean lattice-ordered groups. (English summary) **2001a:06024**
Martinez, Jorge[2] *see* **Hager, Anthony W., 2001a:06024**

18Exx Abelian categories

18E05 Preadditive, additive categories

Liu, Shu Dan (*with* You, Hong) On generalized Moore-Penrose inverses of morphisms with universal factorization. (Chinese. English and Chinese summaries)
You, Hong *see* **Liu, Shu Dan**

Items with secondary classifications in 18E05

Beligiannis, Apostolos The homological theory of contravariantly finite subcategories: Auslander-Buchweitz contexts, Gorenstein categories and (co-)stabilization. **2001g:18012**
Cao, Yong Zhi (*with* Zhu, Ping) A class of matrix equations over a principal ideal domain. (English and Chinese summaries) **2001b:15021**
Hamano, Masahiro Pontrjagin duality and full completeness for multiplicative linear logic (without Mix). (English summary) **2001j:03109**
Zhu, Ping *see* **Cao, Yong Zhi, 2001b:15021**

18E10 Exact categories, abelian categories

Beligiannis, Apostolos Cleft extensions of abelian categories and applications to ring theory. **2001h:18011**
Bourn, Dominique 3×3 lemma and protomodularity. (English summary) **2001m:18013**
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Herzog, Ivo Locally simple objects. (English summary) **2001j:18017**
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18E25 Derived functors and satellites

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18E30 Derived categories, triangulated categories

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18E35 Localization of categories

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18E40 Torsion theories, radicals [see also 13D30, 16S90]

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18Fxx Categories and geometry

18F10 Grothendieck topologies [see also 14F20]

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18F15 Abstract manifolds and fiber bundles [see also 55Rxx, 57Pxx]

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18G05 Projectives and injectives [see also 13C10, 13C11, 16D40, 16D50]

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18G10 Resolutions; derived functors [see also 13D02, 16E05, 18E25]

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18G15 Ext and Tor, generalizations, Künneth formula [see also 55U25]

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18G20 Homological dimension [see also 13D05, 16E10]

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18G25 Relative homological algebra, projective classes

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18G30 Simplicial sets, simplicial objects (in a category) [see also 55U10]

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18G35 Chain complexes [see also 18E30, 55U15]

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18G40 Spectral sequences, hypercohomology [see also 55Txx]

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19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

19A13 Stability for projective modules [see also 13C10]

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19B10 Stable range conditions

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19C20 Symbols, presentations and stability of K_2

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19Dxx Higher algebraic K-theory

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19D25 Karoubi-Villamayor-Gersten K-theory

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19D50 Computations of higher K-theory of rings [see also 13D15, 16E20]

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19D55 K-theory and homology; cyclic homology and cohomology [see also 18G60]

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19E20 Relations with cohomology theories [see also 14Fxx]

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19F05 Generalized class field theory [see also 11G45]

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19F27 Étale cohomology, higher regulators, zeta and L-functions [see also 11G40, 11R42, 11S40, 14F20, 14G10]

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19Gxx K-theory of forms [see also 11Exx]

19G12 Witt groups of rings [see also 11E81]

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19G38 Hermitian K-theory, relations with K-theory of rings

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19Jxx Obstructions from topology

19J05 Finiteness and other obstructions in K_0

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19J10 Whitehead (and related) torsion

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19J25 Surgery obstructions [see also 57R67]

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19Kxx K-theory and operator algebras [See mainly 46L80, and also 46M20]

19K14 K_0 as an ordered group, traces

Fang, Xiao Chun (*with* Qiu, Bo Zhou) Realization in K_0-group of projections from the algebra of matrix functions on higher-dimensional cubes. (Chinese. English and Chinese summaries)
Qiu, Bo Zhou *see* **Fang, Xiao Chun**

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Fang, Xiao Chun The simplicity and real rank zero property of the inductive limit of continuous trace C^*-algebras. (English summary) **2001k:46085**
Gong, Guihua (*with* Lin, Huaxin) Almost multiplicative morphisms and K-theory. (English summary) **2001j:46081**
Kellendonk, Johannes (*with* Putnam, Ian F.) Tilings, C^*-algebras, and K-theory. (English summary) **2001m:46153**
Kodaka, Kazunori The positive cones of K_0-groups of crossed products associated with Furstenberg transformations on the 2-torus. (English summary) **2001b:46111**
Lin, Huaxin *see* **Gong, Guihua, 2001j:46081**
Osaka, Hiroyuki Stable rank for a pair of C^*-algebras. (*see* **2001f:46001**)
Pavlov, A. A. The functor N_0 over the category of von Neumann algebras and its relation to operator K-theory. (Russian. Russian summary) **2001g:46139**
Power, Stephen C. Grothendieck group invariants for partly self-adjoint operator algebras. (English summary) **2001m:47142**
Putnam, Ian F. The ordered K-theory of C^*-algebras associated with substitution tilings. (English summary) **2001m:46159**
— *see also* **Kellendonk, Johannes, 2001m:46153**
Skau, Christian Ordered K-theory and minimal symbolic dynamical systems. (English summary) **2001h:37023**
Walters, Samuel G. On the irrational quartic algebra. (French summary) **2001c:46125**

19K33 EXT and K-homology [see also 55N22]

Items with secondary classifications in 19K33

Guo, Kun Yu Indices of Toeplitz tuples on pseudoregular domains. **2001g:47046**
Kucerovsky, Dan A lifting theorem giving an isomorphism of KK-products in bounded and unbounded KK-theory. (English summary) **2001j:46106**
Lin, Huaxin Homomorphisms from C^*-algebras of continuous trace. (English summary) **2001b:46088**
Scărlătescu-Murea, Silvia Some topological properties of the spectrum of a non-Archimedean Q-algebra. (English summary) **2001j:46119**
— Some isomorphisms of K-groups in the non-Archimedean case. (English summary) **2001j:46120**
Thomsen, Klaus Equivariant KK-theory and C^*-extensions. (English summary) **2001j:19004**
— KK-equivalence and continuous bundles of C^*-algebras. (English summary) **2001j:46107**

19K35 Kasparov theory (KK-theory) [see also 58J22]

Baum, Paul (*with* Millington, Stephen; Plymen, Roger) A proof of the Baum-Connes conjecture for reductive adelic groups. (English and French summaries) **2001m:19011**
Chabert, Jérôme Baum-Connes conjecture for some semi-direct products. (English summary) **2001b:19004**
Higson, Nigel Bivariant K-theory and the Novikov conjecture. (English summary) **2001k:19009**
Kandelaki, Tamaz KK-theory as the K-theory of C^*-categories. (English summary) **2001m:19012**
Meyer, Ralf Equivariant Kasparov theory and generalized homomorphisms. (English summary) **2001m:19013**
Millington, Stephen *see* **Baum, Paul et al., 2001m:19011**
Plymen, Roger *see* **Baum, Paul et al., 2001m:19011**
Thomsen, Klaus Equivariant KK-theory and C^*-extensions. (English summary) **2001j:19004**

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— ★ Methods of noncommutative geometry for group C^*-algebras. (English summary) **2001g:46152**
Fox, Jeffrey (*with* Haskell, Peter) Index theory of perturbed Dolbeault operators: smooth polar divisors. (English summary) **2001k:58037**
— (*with* Haskell, Peter) Perturbed Dolbeault operators and the homology Todd class. (English summary) **2001b:58036**
Gjerde, Richard (*with* Johansen, Ørjan) C^*-algebras associated to non-homogeneous minimal systems and their K-theory. **2001e:46104**
Gong, Guihua (*with* Lin, Huaxin) Almost multiplicative morphisms and K-theory. (English summary) **2001j:46081**
Guentner, Erik (*with* Higson, Nigel; Trout, Jody) Equivariant E-theory for C^*-algebras. (English summary) **2001c:46124**
Haskell, Peter *see* **Fox, Jeffrey, 2001b:58036** *and* **2001k:58037**
Higson, Nigel *see* **Guentner, Erik et al., 2001c:46124**
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Kaminker, Jerome (*with* Yu, Guoliang) Boundary amenability of groups and positive scalar curvature. (English summary) **2001g:19005**
Kato, Tsuyoshi Asymptotic Lipschitz maps, combable groups and higher signatures. **2001g:58036**
Kucerovsky, Dan A lifting theorem giving an isomorphism of KK-products in bounded and unbounded KK-theory. (English summary) **2001j:46106**
Kuku, Aderemi O. *see* **Đỗ Ngọc Diệp et al., 2001a:19002**
Larsen, Flemming *see* **Rørdam, Mikael et al., 2001g:46001**
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Lin, Huaxin Homomorphisms from C^*-algebras of continuous trace. (English summary) **2001b:46088**
— *see also* **Gong, Guihua, 2001j:46081**
Nagy, Gabriel Bivariant K-theories for C^*-algebras. (English summary) **2001b:46112**
Park, Efton (*with* Trout, Jody) Representable E-theory for $C_0(X)$-algebras. (English summary) **2001m:46157**
Periwal, Vipul D-brane charges and K-homology. (English summary) **2001j:81192**
Rørdam, Mikael (*with* Larsen, Flemming; Laustsen, N.) ★ An introduction to K-theory for C^*-algebras. (English summary) **2001g:46001**
Tho, Nguyen Quoc *see* **Đỗ Ngọc Diệp et al., 2001a:19002**
Thomsen, Klaus KK-equivalence and continuous bundles of C^*-algebras. (English summary) **2001j:46107**
Tian, Guohui A periodicity theorem in K-theory for finite covariant systems. (English summary) **2001c:46128**
Troitskiĭ, E. V. The Thom isomorphism in the "twice" equivariant K-theory of C^*-fibrations. (Russian. English and Russian summaries) **2001j:46108**
Trout, Jody *see* **Guentner, Erik et al., 2001c:46124** *and* **Park, Efton, 2001m:46157**
Xue, Yifeng The general stable rank in nonstable K-theory. (English summary) **2001h:46125**
Yu, Guoliang *see* **Kaminker, Jerome, 2001g:19005**

19K56 Index theory [see also 58J20, 58J22]

Baum, Paul (*with* Connes, Alain) Geometric K-theory for Lie groups and foliations. **2001i:19006**
Bousaidi, M. A. Multiplicative structure of the ring $K(S(T^*\mathbf{RP}^{2n+1}))$. (English summary) **2001c:19004**
Connes, Alain *see* **Baum, Paul, 2001i:19006**
Kaminker, Jerome (*with* Yu, Guoliang) Boundary amenability of groups and positive scalar curvature. (English summary) **2001g:19005**
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Brown, Lawrence G. (*with* Pedersen, Gert K.) Extremal K-theory and index for C^*-algebras. (English summary) **2001m:46156**
Carey, Alan L. (*with* Mickelsson, Jouko) A gerbe obstruction to quantization of fermions on odd-dimensional manifolds with boundary. (English summary) **2001h:58029**
Carey, Richard (*with* Pincus, Joel) Perturbation vectors. (English summary) **2001e:47048**
Exel, Ruy (*with* Laca, Marcelo) The K-theory of Cuntz-Krieger algebras for infinite matrices. (English summary) **2001c:46123**
Fox, Jeffrey (*with* Haskell, Peter) Index theory of perturbed Dolbeault operators: smooth polar divisors. (English summary) **2001k:58037**
Haskell, Peter *see* **Fox, Jeffrey, 2001k:58037**
Hilsum, Michel Structures riemanniennes L^p et K-homologie. (English summary) [L^p Riemannian structures and K-homology] **2001a:58031**
Kato, Tsuyoshi Asymptotic Lipschitz maps, combable groups and higher signatures. **2001g:58036**
Keswani, Navin Von Neumann eta-invariants and C^*-algebra K-theory. (English summary) **2001k:58043**
— Relative eta-invariants and C^*-algebra K-theory. (English summary) **2001i:58046**
Khimshiashvili, G. Homotopy classes of abstract elliptic transmission problems. (English summary) **2001m:46160**
Kirchberg, Eberhard (*with* Phillips, N. Christopher) Embedding of exact C^*-algebras in the Cuntz algebra $\mathcal{O}_2$. (English summary) **2001d:46086a**
Laca, Marcelo *see* **Exel, Ruy, 2001c:46123**
Leichtnam, Eric (*with* Piazza, Paolo) A higher Atiyah-Patodi-Singer index theorem for the signature operator on Galois coverings. (English summary) **2001i:58045**
Macho-Stadler, Marta Foliations, groupoids and Baum-Connes conjecture. (English and Russian summaries) **2001h:58030**
Marcolli, Matilde (*with* Mathai, Varghese) Twisted index theory on good orbifolds. I. Noncommutative Bloch theory. (English summary) **2001a:58032**
Mathai, Varghese *see* **Marcolli, Matilde, 2001a:58032**
Mickelsson, Jouko *see* **Carey, Alan L., 2001h:58029**
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Perera, Francesc Lifting units modulo exchange ideals and C^*-algebras with real rank zero. (English summary) **2001g:46149**
Perrot, Denis BRS cohomology and the Chern character in noncommutative geometry. (English summary) **2001f:58056**
Phillips, N. Christopher A classification theorem for nuclear purely infinite simple C^*-algebras. (English summary) **2001d:46086b**
— *see also* **Kirchberg, Eberhard, 2001d:46086a**
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Popescu, Radu Viorel E-théorie équivariante et groupoïdes. (English and French summaries) [Equivariant E-theory and groupoids] **2001h:46124**
Putnam, Ian F. On the K-theory of C^*-algebras of principal groupoids. (English summary) **2001b:46113**
Roe, John Surgery and C^*-algebras. **2001f:46108**
Rosenberg, Jonathan A mini-course on recent progress in algebraic K-theory and its relationship with topology and analysis. (English summary) **2001b:19001**
Savin, A. Yu. (*with* Sternin, B. Yu.) Elliptic operators in odd subspaces. (Russian. Russian summary) **2001k:58039**

Solov'ëv, Yurii Petrovich (*with* Troitskiĭ, E. V.) ★ C^*-algebras and elliptic operators in differential topology. (English summary) **2001f:58050**
(Sosinskiĭ, A. B.) *see* **Solov'ëv, Yurii Petrovich, 2001f:58050**
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Tu, Jean-Louis The Baum-Connes conjecture for groupoids. (English summary) **2001j:46109**
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Zhou, Jian Wei[1] The upper bounds for eigenvalues of Dirac operators. (English summary) **2001g:58055**

19K99 None of the above, but in this section

Oyono-Oyono, Hervé Baum-Connes conjecture and extensions. **2001m:19014**

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Ara, Pere (*with* Goodearl, Kenneth R.; O'Meara, K. C.; Raphael, Robert M.) K_1 of separative exchange rings and C^*-algebras with real rank zero. (English summary) **2001m:46155**
Bouwknegt, Peter (*with* Mathai, Varghese) D-branes, B-fields and twisted K-theory. (English summary) **2001i:81198**
Goodearl, Kenneth R. *see* **Ara, Pere et al., 2001m:46155**
Joachim, Michael A symmetric ring spectrum representing KO-theory. (English summary) **2001k:55011**
Leichtnam, Eric (*with* Nistor, Victor) Crossed product algebras and the homology of certain p-adic and adélic dynamical systems. (English summary) **2001k:46106**
Mathai, Varghese *see* **Bouwknegt, Peter, 2001i:81198**
Nistor, Victor *see* **Leichtnam, Eric, 2001k:46106**
O'Meara, K. C. *see* **Ara, Pere et al., 2001m:46155**
Raphael, Robert M. *see* **Ara, Pere et al., 2001m:46155**
Schafer, James A. The Bass conjecture and group von Neumann algebras. (English summary) **2001g:46150**
Xu, Qing Xiang The minimal closed non-trivial ideals of Toeplitz algebras on discrete groups. (English summary) **2001h:47122**

19Lxx Topological K-theory [see also 55N15, 55R50, 55S25]

19L10 Riemann-Roch theorems, Chern characters

Items with secondary classifications in 19L10

Đỗ Ngọc Diệp (*with* Kuku, Aderemi O.; Tho, Nguyen Quoc) Noncommutative Chern characters of compact Lie group C^*-algebras. (English summary) **2001a:19002**
Fox, Jeffrey (*with* Haskell, Peter) Perturbed Dolbeault operators and the homology Todd class. (English summary) **2001b:58036**
Haskell, Peter *see* **Fox, Jeffrey, 2001b:58036**
Kuku, Aderemi O. *see* **Đỗ Ngọc Diệp et al., 2001a:19002**
Tho, Nguyen Quoc *see* **Đỗ Ngọc Diệp et al., 2001a:19002**
Uranga, Angel M. D-brane probes, RR tadpole cancellation and K-theory charge. (English summary) **2001m:81252**

19L41 Connective K-theory, cobordism [see also 55N22]

Items with secondary classifications in 19L41

González, Jesús[2] Asymptotic behavior in stable homotopy. (Spanish. Spanish summary) **2001f:55019**
— A vanishing line in the BP⟨1⟩-Adams spectral sequence. (English summary) **2001j:55022**
— Connective K-theoretic Euler classes and non-immersions of 2^k-lens spaces. (English summary) **2001i:57043**

19L47 Equivariant K-theory [see also 55N91, 55P91, 55Q91, 55R91, 55S91]

Brylinski, Jean-Luc (*with* Zhang, Bin[2]) Equivariant K-theory of compact connected Lie groups. (English summary) **2001m:19015**
Cho, Jin-Hwan (*with* Masuda, Mikiya) Equivariant K-groups of spheres with involutions. (English summary) **2001e:19008**
Lusztig, George Subregular nilpotent elements and bases in K-theory. (English summary) **2001g:19006**
Masuda, Mikiya *see* **Cho, Jin-Hwan, 2001e:19008**
Wang, Weiqiang Equivariant K-theory, wreath products, and Heisenberg algebra. **2001b:19005**
Zhang, Bin[2] *see* **Brylinski, Jean-Luc, 2001m:19015**

Items with secondary classifications in 19L47

Bell, Jason P. The equivariant Grothendieck groups of the Russell-Koras threefolds. (English summary) **2001m:14016**
Đỗ Ngọc Diệp (*with* Kuku, Aderemi O.; Tho, Nguyen Quoc) Noncommutative Chern characters of compact Lie group C^*-algebras. (English summary) **2001a:19002**
Kuku, Aderemi O. *see* **Đỗ Ngọc Diệp et al., 2001a:19002**
Metzler, David S. A K-theoretic note on geometric quantization. (English summary) **2001g:53158**
Stefański, Bogdan, Jr. Dirichlet branes on a Calabi-Yau three-fold orbifold. (English summary) **2001m:81251**
Tho, Nguyen Quoc *see* **Đỗ Ngọc Diệp et al., 2001a:19002**

19L64 Computations, geometric applications

Ershov, A. V. On the K-theory of fibre bundles for matrix algebras. (Russian) **2001e:19009**

Items with secondary classifications in 19L64

Bousaidi, M. A. Multiplicative structure of the ring $K(S(T^*\mathbf{RP}^{2n+1}))$. (English summary) **2001e:19004**
González, Jesús[2] Stable p-equivalences of stunted lens spaces and stunted complex projective spaces. (English summary) **2001b:55020**
Hodgkin, Luke Topological K-theory of the integers at the prime 2. (English summary) **2001k:55010**
Hořava, Petr Type IIA D-branes, K-theory and Matrix theory. (English summary) **2001e:81109**
Kostant, Bertram A cubic Dirac operator and the emergence of Euler number multiplets of representations for equal rank subgroups. **2001k:22032**
Sankaran, Parameswaran (*with* Zvengrowski, Peter) K-theory of oriented Grassmann manifolds. (English summary) **2001h:55005**
Zvengrowski, Peter *see* **Sankaran, Parameswaran, 2001h:55005**

19L99 None of the above, but in this section

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Gomis, Jaume D-branes on orbifolds with discrete torsion and topological obstruction. (English summary) **2001i:81210**
Hori, Kentaro D-branes, T-duality, and index theory. (English summary) **2001i:81217**
Klusoň, Josef Remark about a non-BPS D-brane in type-IIA theory. (English summary) **2001i:81225**
Olsen, Kasper (*with* Szabo, Richard J.) Brane descent relations in K-theory. (English summary) **2001c:81165**
Schwarz, John H. Remarks on non-BPS D-branes. (English summary) **2001d:81085**
Strickland, N. P. $K(N)$-local duality for finite groups and groupoids. (English summary) **2001h:55006**
Szabo, Richard J. *see* **Olsen, Kasper, 2001c:81165**

19M05 Miscellaneous applications of K-theory

Neeman, Amnon K-theory for triangulated categories. III(B). The theorem of the heart.

Items with secondary classifications in 19M05

Gaberdiel, Matthias R. (*with* Stefański, Bogdan, Jr.) Dirichlet branes on orbifolds. (English summary) **2001k:81224**
Gukov, Sergei K-theory, reality, and orientifolds. (English summary) **2001k:81228**
— (*with* Periwal, Vipul) Dbrane phase transitions and monodromy in K-theory. (English summary) **2001k:81229**
Moore, Gregory W. (*with* Witten, Edward) Self-duality, Ramond-Ramond fields and K-theory. (English summary) **2001m:81254**
Olsen, Kasper (*with* Szabo, Richard J.) Constructing D-branes from K-theory. (English summary) **2001k:81251**
Periwal, Vipul *see* **Gukov, Sergei, 2001k:81229**
Stefański, Bogdan, Jr. *see* **Gaberdiel, Matthias R., 2001k:81224**
Szabo, Richard J. *see* **Olsen, Kasper, 2001k:81251**
Witten, Edward Duality relations among topological effects in string theory. (English summary) **2001m:81253**
— *see also* **Moore, Gregory W., 2001m:81254**

20–XX Group theory and generalizations

20–01 Instructional exposition (textbooks, tutorial papers, etc.)

Aschbacher, Michael ★ Finite group theory. (English summary) **2001c:20001**
Shpirko, S. V. Solution of n-person games by means of a prediction-type gradient method. (Russian) **2001j:20001**
Smith, Geoff C. (*with* Tabachnikova, Olga) ★ Topics in group theory. (English summary) **2001j:20002**
Tabachnikova, Olga *see* **Smith, Geoff C., 2001j:20002**

Items with secondary classifications in 20–01

Hibbard, Allen C. (*with* Levasseur, Kenneth M.) ★ Exploring abstract algebra with Mathematica®. (English summary) **2001g:00001**
Janusz, Gerald J. *see* **McCoy, Neal H., 2001j:00003**
Levasseur, Kenneth M. *see* **Hibbard, Allen C., 2001g:00001**
Lüneburg, Heinz ★ Gruppen, Ringe, Körper. (German. German summary) [Groups, rings and fields] **2001c:00001**
McCoy, Neal H. (*with* Janusz, Gerald J.) ★ Introduction to abstract algebra. (English summary) **2001j:00003**
Scherk, John ★ Algebra. (English summary) **2001i:00002**
Wehrfritz, B. A. F. ★ Finite groups. **2001h:20021**

20–02 Research exposition (monographs, survey articles)

Adyan, S. I. (*with* Durnev, V. G.) Algorithmic problems for groups and semigroups. (Russian. Russian summary) **2001h:20001**
Baumslag, Gilbert (*with* Myasnikov, A. G.[2]; Shpilrain, Vladimir) Open problems in combinatorial group theory. **2001c:20002**
Durnev, V. G. *see* **Adyan, S. I., 2001h:20001**
Myasnikov, A. G.[2] *see* **Baumslag, Gilbert et al., 2001c:20002**
Shpilrain, Vladimir *see* **Baumslag, Gilbert et al., 2001c:20002**

Items listed otherwise than by author

Problems:
Combinatorial group theory *see* **Baumslag, Gilbert et al., 2001c:20002**

Items with secondary classifications in 20–02

De Giovanni, Francesco Groups and automorphisms. (Italian) **2001f:20073**
Dehornoy, Patrick ★ Braids and self-distributivity. **2001j:20057**
Mikhalëv, A. V. (*with* Mishina, A. P.) Infinite abelian groups: methods and results. (Russian. English and Russian summaries) **2001f:20120**
Mishina, A. P. *see* **Mikhalëv, A. V., 2001f:20120**

Items listed otherwise than by author

Progress in Mathematics *see* **Dehornoy, Patrick, 2001j:20057**

20–03 Historical (must also be assigned at least one classification number from Section 01)

(Brauer, Richard) *see* **Curtis, Charles W., 2001e:20001**
(Burnside, William) *see* **Curtis, Charles W., 2001e:20001**
Curtis, Charles W. ★ Pioneers of representation theory: Frobenius, Burnside, Schur, and Brauer. (English summary) **2001e:20001**
(Frobenius, Georg Ferdinand) *see* **Curtis, Charles W., 2001e:20001**
(Harish-Chandra) *see* **Herb, Rebecca A., 2001g:20001**
Herb, Rebecca A. An elementary introduction to Harish-Chandra's work. **2001g:20001**
(Kloosterman, Hendrik Douwe) *see* **Springer, Tonny A.**
Mysovskikh, V. I. *see* **Vavilov, Nikolai et al., 2001a:20001**
(Schur, Issai) *see* **Curtis, Charles W., 2001e:20001**
Springer, Tonny A. Kloosterman's work on representations of finite modular groups. (English summary)
Teterin, Yu. G. *see* **Vavilov, Nikolai et al., 2001a:20001**
Vavilov, Nikolai (*with* Mysovskikh, V. I.; Teterin, Yu. G.) Computational group theory in St. Petersburg. (Russian. English and Russian summaries) **2001a:20001**

Items listed otherwise than by author

Anniversary:
Birth of Kloosterman, Hendrik Douwe *see* **Springer, Tonny A.**
Biography:
Brauer, Richard Dagobert *see* **Curtis, Charles W., 2001e:20001**
Burnside, William *see* **Curtis, Charles W., 2001e:20001**
Frobenius, Georg Ferdinand *see* **Curtis, Charles W., 2001e:20001**
Schur, Issai *see* **Curtis, Charles W., 2001e:20001**

Items with secondary classifications in 20–03

(Borcherds, Richard E.) *see* **Ray, Urmie, 2001g:01044**
Conrad, Keith The origin of representation theory. (English summary) **2001b:01013**
Gray, Jeremy J. From the history of a simple group. **2001a:14001**
Hawkins, Thomas ★ Emergence of the theory of Lie groups. (English summary) **2001f:01031**
de la Peña, José Antonio Algebra in the XXth century. (Spanish) **2001m:01036**
Ray, Urmie Le Monstre au clair de lune: sur les travaux de R. Borcherds. [The Monster in the Moonshine: on the works of R. Borcherds] **2001g:01044**
Sugiura, Mitsuo The structure of groups in Galois and Killing. (Japanese. Japanese summary) (*see* **2001c:01002**)

20–04 Explicit machine computation and programs (not the theory of computation or programming)

Hulpke, Alexander Computing normal subgroups. (English summary) (*see* **2001m:68004**)
Slattery, Michael C. Computing double cosets in soluble groups. (English summary) **2001k:20001**
Wang, Shao Heng A computer checking method for the associative law of finite groups. (Chinese. English and Chinese summaries)

Items with secondary classifications in 20–04

Alp, Murat (*with* Wensley, Christopher D.) Enumeration of cat^1-groups of low order. (English summary) **2001e:18002**
Ellis, Graham (*with* Kholodna, Irina) Computing second cohomology of finite groups with trivial coefficients. (English summary) **2001k:20115**
Havas, George (*with* Newman, M. F.; Niemeyer, Alice C.; Sims, Charles C.) Computing in groups with exponent six. (English summary) **2001g:20035**
Hibbard, Allen C. (*with* Levasseur, Kenneth M.) ★ Exploring abstract algebra with Mathematica®. (English summary) **2001g:00001**
Kholodna, Irina *see* **Ellis, Graham, 2001k:20115**
Levasseur, Kenneth M. *see* **Hibbard, Allen C., 2001g:00001**
Li, Shi Qi An application of Maple to the study of quaternions and the quaternion group. (Chinese. English and Chinese summaries)
Mysovskikh, V. I. Burnside matrices and subgroup embeddings in finite groups. (English summary) **2001j:20034**
— *see also* **Vavilov, Nikolai et al., 2001a:20001**
Newman, M. F. *see* **Havas, George et al., 2001g:20035**
Niemeyer, Alice C. *see* **Havas, George et al., 2001g:20035**
Rees, Sarah A language theoretic analysis of combings. (English summary) **2001a:20052**
Sims, Charles C. *see* **Havas, George et al., 2001g:20035**
Teterin, Yu. G. *see* **Vavilov, Nikolai et al., 2001a:20001**
Vavilov, Nikolai (*with* Mysovskikh, V. I.; Teterin, Yu. G.) Computational group theory in St. Petersburg. (Russian. English and Russian summaries) **2001a:20001**
Wensley, Christopher D. *see* **Alp, Murat, 2001e:18002**

20–06 Proceedings, conferences, collections, etc.

(Atkinson, Michael) *see* **Computational and geometric aspects of modern algebra, 2001c:20003**
(Corsini, Piergiulio) *see* **Hyperstructures and their applications in criptography, geometry and uncertainty treatment, 2001d:20001** *and* **2001d:20002**
(Eugeni, Franco) *see* **Hyperstructures and their applications in criptography, geometry and uncertainty treatment, 2001d:20001** *and* **2001d:20002**
(Gilbert, N. D.) *see* **Computational and geometric aspects of modern algebra, 2001c:20003**
(Göbel, Rüdiger) *see* **Abelian groups, rings and modules, 2001i:20001**
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20Axx Foundations

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20A15 Applications of logic to group theory

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20Bxx Permutation groups

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20B27 Infinite automorphism groups [see also 12F10]

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Brinkman, John Generators of order two for S_n and its two double covers. **2001a:20005**
Chen, Xiao Song (*with* Huang, Wen Tao; Wen, Gui Sheng) The centre of n-order symmetric groups. (Chinese. English and Chinese summaries)
Herzog, Marcel *see* **Bertram, Edward, 2001m:20004**
Huang, Ben Wen The subgroups of the symmetric group S_6. (Chinese. English and Chinese summaries)
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Kallman, Robert R. Every reasonably sized matrix group is a subgroup of S_∞. (English summary) **2001h:20005**
Mazurov, Viktor Danilovich *see* **Zavarnitsin, A. V., 2001i:20004**
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Whiston, Julius Maximal independent generating sets of the symmetric group. **2001e:20004**
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Denham, G. Hanlon and Stanley's conjecture and the Milnor fibre of a braid arrangement. (English summary) **2001i:52036**
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Krämer, Helmut Magische Dreiecke, endliche Gruppen und Kombinatorik. [Magic triangles, finite groups and combinatorics] **2001m:05059**
Lesh, Kathryn A filtration of spectra arising from families of subgroups of symmetric groups. (English summary) **2001a:55010**
Mansour, Toufik (*with* Vaĭnshteĭn, A. D.) Avoiding maximal parabolic subgroups of S_k. (English summary) **2001k:05016**
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Spinas, Otmar *see* **Brendle, Jörg et al., 2001i:03097**
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20B35 Subgroups of symmetric groups

Meidl, Wilfried On maximal abelian permutation groups of the finite field F_q containing all Dickson permutations. (English summary) **2001e:20005**
Mysovskikh, V. I. (*with* Skopin, A. I.) Embedding properties of nonprimary subgroups of the symmetric group of degree eight. (Russian. English and Russian summaries) **2001c:20007**
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Hjorth, Greg Wildness in the product groups. (English summary) **2001h:03087**
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Morigi, M. *see* **Lucchini, Andrea et al., 2001f:20002**
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Pinnock, C. J. E. Irreducible and transitive locally-nilpotent by abelian finitary groups. (English summary) **2001e:20059**
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Zhang, Yi[12] Maximal cofinitary groups. (English summary) **2001d:03120**

20B40 Computational methods

Cameron, Peter J. ★ Permutation groups. (English summary) **2001c:20008**
Cannon, John J. (*with* Souvignier, Bernd) On the computation of conjugacy classes in permutation groups. (English summary) (*see* **2001i:68010**)
Hulpke, Alexander Conjugacy classes in finite permutation groups via homomorphic images. (English summary) **2001a:20006**
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20B99 None of the above, but in this section

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20Cxx Representation theory of groups [see also 19A22 (for representation rings and Burnside rings)]

20C05 Group rings of finite groups and their modules [see also 16S34]

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Aschbacher, Michael On primitive linear representations of finite groups. **2001h:20006**
Bleher, Frauke M. (*with* Kimmerle, Wolfgang) On the structure of integral group rings of sporadic groups. (English summary) **2001i:20006**
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Fottner, Hubert (*with* Külshammer, Burkhard) On indecomposable and imprimitive modules for finite groups—a G-algebra approach. **2001a:20008**
— A remark on the Puig correspondence and Thévenaz's lifting theorem. **2001e:20006**
Garotta, Odile On Auslander-Reiten systems via tensor product. **2001i:20007**
Hanaki, Akihide Local subgroups and group algebras of finite p-solvable groups. (*see* **2001f:20025**)
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Kiyota, Masao p-good groups and P-good modules. (*see* **2001d:20048**)

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Nebe, Gabriele The group ring of $SL_2(p^f)$ over p-adic integers for p odd. (English summary) **2001i:20008**
Puig, Lluís Source algebras of p-central group extensions. **2001k:20006**
Rahnamai Barghi, A. The classification of a class of homogeneous integral table algebras of degree five. (English summary) **2001i:20009**
Roggenkamp, Klaus W. The cellular structure of integral group rings of dihedral groups. (English summary) **2001f:20007**
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Alejandro, Priscila P. A representation theory sieve. (English summary) **2001i:05027**
Behn, Antonio Groups with bounded representation degree. (English summary) **2001h:16028**
Bovdi, Adalbert (*with* Erdei, L.) Unitary units in modular group algebras of 2-groups. (English summary) **2001c:16058**
Broué, M. (*with* Malle, Gunter; Michel, Jean Christian Marie) Towards spetses. I. (English summary) **2001b:20082**
Carlson, Jon F. Cohomology and induction from elementary abelian subgroups. (English summary) **2001e:20042**
Cen, Jian Miao On the convergence and periods in Boolean group algebras. (English summary) **2001m:16039**
Dokuchaev, M. A. (*with* Exel, Ruy; Piccione, Paolo) Partial representations and partial group algebras. (English summary) **2001m:16034**
Domokos, Mátyás (*with* Hegedűs, Pál) Noether's bound for polynomial invariants of finite groups. (English summary) **2001a:13005**
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Greither, Cornelius Galois-Cohen-Lenstra heuristics. (English summary) **2001i:11127**
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Harris, Morton E. (*with* Linckelmann, Markus) Splendid derived equivalences for blocks of finite p-solvable groups. **2001e:20011**
Hegedűs, Pál *see* **Domokos, Mátyás, 2001a:13005**
Király, Bertalan A Sehgal's problem. (English summary) **2001e:16045**
Koenig, Steffen (*with* Xi, Changchang) When is a cellular algebra quasi-hereditary? **2001h:16007**
Liebler, Robert A. Constructive representation theoretic methods and non-abelian difference sets. **2001h:05026**
Linckelmann, Markus *see* **Harris, Morton E., 2001e:20011**
Malle, Gunter *see* **Broué, M. et al., 2001b:20082**
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Marcus, Andrei Derived equivalences and Dade's invariant conjecture. **2001b:20019**
Michel, Jean Christian Marie *see* **Broué, M. et al., 2001b:20082**
Nebe, Gabriele The group ring of $SL_2(2^f)$ over 2-adic integers. (English summary) **2001i:20029**
Piccione, Paolo *see* **Dokuchaev, M. A. et al., 2001m:16034**
Puig, Lluís The hyperfocal subalgebra of a block. **2001h:20012**
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Telveenus, A. Circulants and group algebras. (English summary) **2001b:16028**
Uno, Katsuhiro Simple modules in the Auslander-Reiten quivers of finite group algebras. (*see* **2001f:20025**)
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20C07 Group rings of infinite groups and their modules [see also 16S34]

Crabb, M. J. (*with* McGregor, C. M.) Faithful, irreducible $*$-representations for group algebras of free products. (English summary) **2001f:20008**
Danchev, P. V. Isomorphism of modular group algebras of totally projective abelian groups. **2001a:20009**
— Modular group algebras of coproducts of countable abelian groups. (English summary) **2001d:20005**
McGregor, C. M. *see* **Crabb, M. J., 2001f:20008**
Segal, Dan On modules of finite upper rank. (English summary) **2001b:20006**
Tasić, Vladimir An analytic interpretation of real dimension subgroups. (English summary)
Tomkinson, M. J. A splitting theorem for abelian-by-FC-hypercentral groups. (English summary) **2001c:20009**

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Aleev, R. Zh. (*with* Panina, G. A.) The units of cyclic groups of orders 7 and 9. (Russian) **2001b:16033**
Baranov, Aleksandr A. (*with* Kleshchev, Alexander S.; Zalesskiĭ, A. E.) Asymptotic results on modular representations of symmetric groups and almost simple modular group algebras. **2001a:20022**
Behn, Antonio Groups with bounded representation degree. (English summary) **2001h:16028**
Danchev, P. V. Commutative group algebras of abelian Σ-groups. (English summary) **2001c:16049**
— Isomorphic semisimple group algebras. (English summary)
Hill, Paul Modular group algebras and simply presented groups. (English summary) **2001b:16035**
Király, Bertalan A Sehgal's problem. (English summary) **2001e:16045**
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Kublanova, E. M. (*with* Piotkin, B. I.; Yakovlev, Anatoliĭ Vladimirovich) Pseudoidentities and pseudovarieties of representations of groups. (English summary) **2001c:20053**
Kurdachenko, Leonid A. (*with* Subbotin, I. Ya.) On Artinian modules over hyperfinite groups. (English summary) **2001i:20077**
McNinch, George J. Semisimplicity of exterior powers of semisimple representations of groups. (English summary) **2001c:20016**
Panina, G. A. *see* **Aleev, R. Zh., 2001b:16033**
Plotkin, B. I. *see* **Kublanova, E. M. et al., 2001c:20053**
Razdan, Atul *see* **Vermani, Lekh Raj et al., 2001c:20070**
Subbotin, I. Ya. *see* **Kurdachenko, Leonid A., 2001i:20077**
Tahara, Ken-Ichi *see* **Vermani, Lekh Raj et al., 2001c:20070**
Vermani, Lekh Raj (*with* Razdan, Atul; Tahara, Ken-Ichi) Generalized dimensional subgroups and elementary abelian groups. **2001c:20070**
Yakovlev, Anatoliĭ Vladimirovich *see* **Kublanova, E. M. et al., 2001c:20053**
Zalesskiĭ, A. E. *see* **Baranov, Aleksandr A. et al., 2001a:20022**

20C08 Hecke algebras and their representations

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Adin, Ron M. (*with* Postnikov, A. E.; Roichman, Yuval) Hecke algebra actions on the coinvariant algebra. (English summary) **2001i:20010**
Ariki, Susumu (*with* Mathas, Andrew) The number of simple modules of the Hecke algebras of type $G(r, 1, n)$. (English summary) **2001e:20007**
Baker, T. H. (*with* Forrester, Peter J.) Isomorphisms of type A affine Hecke algebras and multivariable orthogonal polynomials. (English summary) **2001c:20010**
Balmaceda, Jose Maria P. Gelfand pairs in Hecke algebras. (English summary) **2001i:20011**
Cherednik, Ivan Lectures on Knizhnik-Zamolodchikov equations and Hecke algebras. (English summary) **2001g:20004**
Dai, Lianrong *see* **Pan, Feng[1], 2001b:20008**
Fauser, Bertfried *see* **Abłamowicz, Rafał, 2001g:20003**
Forrester, Peter J. *see* **Baker, T. H., 2001c:20010**
Gérardin, Paul (*with* Lai, K. F.) Asymptotic behavior of eigenfunctions for the Hecke algebra on homogeneous trees. (*see* **2001i:33001**)
Golubkov, Artem Yu. (*with* Mantaci, Roberto) Hecke algebras of type A at $q = 0$ and quasi-differential operators. (English summary) **2001i:20012**
Green, R. M. (*with* Losonczy, Jozsef) A projection property for Kazhdan-Lusztig bases. **2001f:20009**
Heckman, G. J. (*with* Opdam, E. M.) Harmonic analysis for affine Hecke algebras. (English summary) **2001g:20005**
Honda, Tatsuo Composition series of principal serial additive groups of degenerate affine Hecke algebras. (Japanese) (*see* **2001m:00025**)
Iommi Amunátegui, Godofredo A note on the irreducible characters of the Hecke algebra $H_n(q)$. (English summary) **2001m:20005**
Kapranov, M. Double affine Hecke algebras and 2-dimensional local fields. **2001k:20007**
Krieg, Aloys Hecke algebras and hypergroups. (English summary) **2001f:20010**
Lai, K. F. *see* **Gérardin, Paul, (2001i:33001)**
Leclerc, Bernard (*with* Thibon, Jean-Yves; Vasserot, Eric) Zelevinsky's involution at roots of unity. (English summary) **2001f:20011**
Losonczy, Jozsef The Kazhdan-Lusztig basis and the Temperley-Lieb quotient in type D. (English summary) **2001i:20013**
— *see also* **Green, R. M., 2001f:20009**
Malle, Gunter On the rationality and fake degrees of characters of cyclotomic algebras. **2001e:20008**
Mantaci, Roberto *see* **Golubkov, Artem Yu., 2001i:20012**
Mathas, Andrew ★ Iwahori-Hecke algebras and Schur algebras of the symmetric group. (English summary) **2001g:20006**
— *see also* **Ariki, Susumu, 2001e:20007**
McDonough, T. P. (*with* Pallikaros, C. A.) On the irreducible representations of the specializations of the generic Hecke algebra of type F_4^*. (English summary) **2001a:20010**
— (*with* Pallikaros, C. A.) On the irreducible representations of the specializations in characteristics 2 and 3 of the generic Hecke algebra of type F_4^1. (English summary) **2001b:20007**
Opdam, E. M. *see* **Heckman, G. J., 2001g:20005**
Pallikaros, C. A. *see* **McDonough, T. P., 2001a:20010** *and* **2001b:20007**
Pan, Feng[1] (*with* Dai, Lianrong) Tensor products of Hecke algebras. (English summary) **2001b:20008**
Postnikov, A. E. *see* **Adin, Ron M. et al., 2001i:20010**
Reeder, Mark Matrices for affine Hecke modules. **2001g:20007**
Roggenkamp, Klaus W. The structure over $\mathbf{Z}[q, q^{-1}]$ of Hecke orders of dihedral groups. **2001a:20011**
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Rouquier, Raphaël Familles et blocs d'algèbres de Hecke. (English and French summaries) [Families and blocks of Hecke algebras] **2001f:20012**
Shoji, Toshiaki A Frobenius formula for the characters of Ariki-Koike algebras. (English summary) **2001f:20013**
Stokman, Jasper V. Koornwinder polynomials and affine Hecke algebras. **2001m:20006**
Thibon, Jean-Yves *see* **Leclerc, Bernard et al., 2001f:20011**
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Ariki, Susumu Cyclotomic q-Schur algebras as quotients of quantum algebras. (English summary) **2001a:16065**
Diaconis, Persi (*with* Ram, Arun) Analysis of systematic scan Metropolis algorithms using Iwahori-Hecke algebra techniques. **2001j:60132**
Di Francesco, P. Folding and coloring problems in mathematics and physics. (English summary) **2001g:82004**
Donkin, S. ★ The q-Schur algebra. (English summary) **2001h:20072**
Geck, Meinolf (*with* Kim, Sungsoon; Pfeiffer, Götz) Minimal length elements in twisted conjugacy classes of finite Coxeter groups. (English summary) **2001h:20049**
Jiang, Lining (*with* Wang, Zheng Dong[1]) The Schur-Weyl duality between quantum group of type A and Hecke algebra. (English and Chinese summaries) **2001m:17017**
Kim, Sungsoon *see* **Geck, Meinolf et al., 2001h:20049**
Koelink, H. T. q-Krawtchouk polynomials as spherical functions on the Hecke algebra of type B. (English summary) **2001g:33037**
Komori, Yasushi *see* **Nishino, Akinori et al., 2001f:33023**
Lascoux, Alain About the "y" in the χ_y-characteristic of Hirzebruch. (English summary) **2001a:14052**
Leclerc, Bernard Decomposition numbers and canonical bases. (English summary) **2001j:17031**
Levy, Dan *see* **Martin, Paul P. et al., 2001k:81092**
Malle, Gunter (*with* Navarro, Gabriel; Olsson, Jørn B.) Zeros of characters of finite groups. **2001h:20008**
Martin, Paul P. (*with* Woodcock, David; Levy, Dan) A diagrammatic approach to Hecke algebras of the reflection equation. (English summary) **2001k:81092**
Navarro, Gabriel *see* **Malle, Gunter et al., 2001h:20008**
Nishino, Akinori (*with* Ujino, Hideaki; Komori, Yasushi; Wadati, Miki) Rodrigues formulas for the non-symmetric multivariable polynomials associated with the BC_N-type root system. (English summary) **2001f:33023**
Olsson, Jørn B. *see* **Malle, Gunter et al., 2001h:20008**
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Roggenkamp, Klaus W. Blocks with cyclic defect of Hecke orders of Coxeter groups. (English summary) **2001e:16020**
Sakamoto, Masahiro (*with* Shoji, Toshiaki) Schur-Weyl reciprocity for Ariki-Koike algebras. (English summary) **2001f:17030**
Shoji, Toshiaki *see* **Sakamoto, Masahiro, 2001f:17030**
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Varagnolo, Michela (*with* Vasserot, Eric) On the decomposition matrices of the quantized Schur algebra. **2001c:17029**
Vasserot, Eric *see* **Varagnolo, Michela, 2001c:17029**
Wadati, Miki *see* **Nishino, Akinori et al., 2001f:33023**
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Yamada, Hiroshi Elliptic root system and elliptic Artin group. (English summary) **2001e:20086**

20C10 Integral representations of finite groups

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Bouc, Serge (*with* Thévenaz, Jacques) The group of endo-permutation modules. (English summary) **2001i:20023**
Del Río, Ángel *see* **Jespers, Eric, 2001a:16054**
Jespers, Eric (*with* Del Río, Ángel) A structure theorem for the unit group of the integral group ring of some finite groups. (English summary) **2001a:16054**
Juriaans, Stanley O. (*with* Polcino Milies, César) Units of integral group rings of Frobenius groups. (English summary) **2001e:16054**
López Bautista, Pedro Ricardo On the semisimple holomorphic differentials in characteristic p. (English summary) (*see* **2001d:00036**)
Polcino Milies, César *see* **Juriaans, Stanley O., 2001e:16054**
Thévenaz, Jacques *see* **Bouc, Serge, 2001i:20023**

20C11 p-adic representations of finite groups

Puig, Lluis ★ On the local structure of Morita and Rickard equivalences between Brauer blocks. (English summary) **2001d:20006**

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20C12 Integral representations of infinite groups

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Bridson, Martin R. Finiteness properties for subgroups of $GL(n, \mathbf{Z})$. (English summary) **2001f:20112**
Nebe, Gabriele The group ring of $SL_2(2^f)$ over 2-adic integers. (English summary) **2001i:20029**

20C15 Ordinary representations and characters

Adin, Ron M. (*with* Postnikov, A. E.; Roichman, Yuval) On characters of Weyl groups. (English summary) **2001j:20008**
Aguado, J. L. *see* **Araujo, J. O., 2001e:20009**
André, Carlos A. M. Irreducible characters of finite algebra groups. **2001g:20009**
Arad, Z. (*with* Fisman, E.; Muzychuk, M.) On a product of two elements in noncommutative C-algebras. (English summary) **2001c:20011**
Araujo, J. O. (*with* Aguado, J. L.) Representations of finite groups on polynomial rings. (English summary) **2001e:20009**
Armeanu, Ion Schur index for rational groups whose Sylow 2-subgroups are abelian or dihedral. (English summary)
— Properties of the Schur index for ambivalent groups. (English summary) **2001k:20008**
— Splitting fields for rational groups all whose Sylow 2-subgroups are abelian. (English summary)
Atsumi, Tsuyoshi Short proofs of Hiramine' results on character values. **2001a:20012**
Behravesh, Houshang Quasi-permutation representations of metacyclic p-groups with non-cyclic center. (English summary) **2001i:20015**
Belonogov, V. A. A property of the character table for a finite group. (Russian. Russian summary) **2001i:20016**
Benyash-Krivets, V. V. Varieties of two-dimensional characters of groups, and amalgamated products. (Russian. English and Russian summaries) **2001d:20007**
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20Dxx Abstract finite groups

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20D05 Classification of simple and nonsolvable groups

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20D06 Simple groups: alternating groups and groups of Lie type [see also 20Gxx]

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Bray, John N. An improved method for generating the centralizer of an involution. (English summary) **2001c:20063**
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20D08 Simple groups: sporadic groups

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Gebhardt, Volker Two short presentations for Lyons' sporadic simple group. (English summary) **2001j:20021**
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Huppert, Bertram Some simple groups which are determined by the set of their character degrees. I. (English summary) **2001k:20009**
Ito, Hideji On the modular equation of $j(z)^{1/3}$. (English summary) **2001c:11054**
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20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [see also 20F17]

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Arroyo-Jordá, P. (*with* Ballester-Bolinches, A.; Pérez-Ramos, M. D.) Fitting sets pairs. **2001h:20019**
Ballester-Bolinches, A. (*with* Pérez-Ramos, M. D.; Martínez-Pastor, A.) Nilpotent-like fitting formations of finite soluble groups. (English summary) **2001m:20023**
— (*with* Wang, Yan Ming; Guo, Xiu Yun) c-supplemented subgroups of finite groups. (English summary) **2001k:20031**
— (*with* Wang, Yan Ming) Finite groups with some C-normal minimal subgroups. (English summary) **2001j:20024**
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— *see also* **Li, Shi Rong, 2001f:20035; Ballester-Bolinches, A. et al., 2001j:20024** *and* **2001k:20031**
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20D25 Special subgroups (Frattini, Fitting, etc.)

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20D30 Series and lattices of subgroups

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Heineken, Hermann On normal embedding of subgroups. (English summary) **2001m:20025**
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20D60 Arithmetic and combinatorial problems

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20Exx Structure and classification of infinite or finite groups

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Benakli, Nadia (*with* Dasbach, Oliver T.; Glasner, Yair; Mangum, Brian) A note on doubles of groups. (English summary) **2001k:20054**
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Parker, Christopher (*with* Rowley, Peter J.) Completions of Goldschmidt amalgams of type G_4 in dimension 3. (English summary) **2001m:20035**
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20E07 Subgroup theorems; subgroup growth

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20E08 Groups acting on trees [see also 20F65]

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Amaglobeli, M. G. Varieties of nilpotent exponential groups. (English summary)
Belegradek, O. V. Finitely determined members of varieties of groups and rings. (English summary) **2001k:20057**
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Chernikov, N. S. (*with* Trebenko, D. Ya.) Quotient groups of groups of some classes. (Russian. English and Ukrainian summaries) **2001m:20036**
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— (*with* Krasil'nikov, A. N.) A solution of a problem of Plotkin and Vovsi and an application to varieties of groups. (English summary) **2001c:20052**
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20E18 Limits, profinite groups

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O'Sullivan, Niamh Genus and cancellation. (English summary) **2001d:20043**
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Shalev, Aner Probabilistic group theory. (English summary) **2001b:20117**
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Sonn, Jack Free pro-p groups as Galois groups over $\mathbf{Q}(p)(t)$. (English summary) **2001m:12009**
Symonds, Peter (*with* Weigel, Thomas) Cohomology of p-adic analytic groups. **2001k:22025**
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20E22 Extensions, wreath products, and other compositions [see also 20J05]

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Bonciocat, Nicolae Ciprian The groups semidirect cyclic product. (English summary)
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Burichenko, V. P. Extensions of abelian 2-groups by means of $L_2(q)$ with irreducible action. (Russian. Russian summary) **2001h:20035**
Campbell, Colin Matthew *see* **Ayik, H. et al., 2001g:20026**
Çevik, A. Sinan The efficiency of standard wreath product. (English summary) **2001g:20027**
Müller, Thomas W. Enumerating representations in finite wreath products. (English summary) **2001f:20059**
Mysovskikh, V. I. On the lattice of subgroups normalized by the symmetric group in the complete monomial group. (Russian. English and Russian summaries) **2001j:20039**
Nakaoka, Irene N. Non-abelian tensor products of solvable groups. (English summary) **2001c:20058**
O'Connor, J. J. *see* **Ayik, H. et al., 2001g:20026**
Panagopoulos, John Semicomplete permutational wreath products. (English summary) **2001k:20061**
Pinnock, C. J. E. Irreducible and transitive locally-nilpotent by abelian finitary groups. (English summary) **2001c:20059**
Qi, Zhen Kai *see* **Zheng, Bao Dong**
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Tománek, L'udovít Some quasicentral extensions with the help of the quaternion group. (English summary) **2001b:20052**
Usenko, V. M. On semiretractions of groups. (Russian. English summary) **2001b:20053**
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Hsu, Tim ★ Quilts: central extensions, braid actions, and finite groups. **2001g:20042**
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20E25 Local properties

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O'Sullivan, Niamh Genus and localization of virtually nilpotent groups. (English summary) **2001k:20062**
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Perez, Edmundo R., Jr. On products of normal supersoluble subgroups. (English summary) **2001k:20071**
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20E26 Residual properties and generalizations

Baumslag, Gilbert (*with* Myasnikov, A. G.[2]; Remeslennikov, Vladimir) Discriminating and co-discriminating groups. **2001i:20062**
Delizia, Costantino (*with* Rhemtulla, Akbar; Smith, Howard) Locally graded groups with a nilpotency condition on infinite subsets. (English summary) **2001k:20063**
Gitik, Rita Doubles of groups and hyperbolic LERF 3-manifolds. (English summary) **2001a:20044**
Macedońska, Olga (*with* Nekrashevych, Volodymyr; Sushchanskiĭ, V. I.) Commensurators of groups and reversible automata. (Ukrainian summary)
Myasnikov, A. G.[2] *see* **Baumslag, Gilbert et al., 2001i:20062**
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Rhemtulla, Akbar *see* **Delizia, Costantino et al., 2001k:20063**
Shumyatsky, Pavel Verbal subgroups in residually finite groups. (English summary) **2001j:20040**
Smith, Howard *see* **Delizia, Costantino et al., 2001k:20063**
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Sushchanskiĭ, V. I. *see* **Macedońska, Olga et al.**
Wise, Daniel T. Subgroup separability of graphs of free groups with cyclic edge groups. (English summary) **2001e:20026**

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20E34 General structure theorems

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20E99 None of the above, but in this section

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20F06 Cancellation theory; application of van Kampen diagrams [see also 57M05]

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20F10 Word problems, other decision problems, connections with logic and automata [see also 03B25, 03D05, 03D40, 06B25, 08A50, 68Q70]

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Hamidi-Tehrani, Hessam On complexity of the word problem in braid groups and mapping class groups. (English summary) **2001f:20065**
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20F12 Commutator calculus

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Yakovlev, E. V. On mutual commutants of generalized carpet subgroups. (Russian. Russian summary) **2001e:20037**

20F14 Derived series, central series, and generalizations

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McCann, Brendan On the derived length of certain factorised groups. (English summary) **2001f:20066**
Peluso, Ada A subgroup theorem for certain quotients of finite-rank free metabelian groups. (English summary) **2001k:20068**
Razdan, Atul *see* **Vermani, Lekh Raj et al., 2001c:20070**
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Baumslag, Gilbert Finitely generated residually torsion-free nilpotent groups. I. (English summary) **2001c:20073**
Deaconescu, Marian (*with* Walls, Gary L.) Right 2-Engel elements and commuting automorphisms of groups. (English summary) **2001m:20058**
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Voskresenskaya, Galina V. Metacyclic groups and modular forms. (Russian. Russian summary) **2001a:11074**
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20F16 Solvable groups, supersolvable groups [see also 20D10]

Abdollahi, Alireza Some Engel conditions on infinite subsets of certain groups. (English summary) **2001e:20029**
— Finitely generated soluble groups with an Engel condition on infinite subsets. (English summary)
Alperin, Roger C. Solvable groups of exponential growth and HNN extensions. **2001e:20030**
Artemovich, O. D. Solvable groups with many conditions on nilpotent-by-Chernikov subgroups. (English and Russian summaries) **2001f:20067**
— Solvable groups with many BFC-subgroups. (English summary) **2001m:20049**
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— (*with* Niemenmaa, Markku) Solvability conditions for loops and groups. **2001j:20048**
De Falco, Maria Groups satisfying the minimal condition on non-supersoluble subgroups. (English summary) **2001j:20049**
Delizia, Costantino A nilpotency condition for finitely generated soluble groups. (English and Italian summaries) **2001b:20057**
Detinko, A. S. A new GAP group library for irreducible maximal solvable subgroups of prime degree classical groups. (English and Russian summaries) **2001h:20039**
Frécon, Olivier Sous-groupes anormaux dans les groupes de rang de Morley fini résolubles. [Abnormal subgroups in solvable groups of finite Morley rank] **2001e:20031**
— Sous-groupes de Hall généralisés dans les groupes résolubles de rang de Morley fini. [Generalized Hall subgroups of solvable groups of finite Morley rank] **2001k:20069**
Gupta, Narain (*with* Sidki, Said) On torsion-free metabelian groups with commutator quotients of prime exponent. (English summary) **2001g:20038**
Jaber, Khaled (*with* Wagner, Frank O.) Largeur et nilpotence. (English, French and German summaries) [Largeness and nilpotency] **2001c:20071**
Kochloukova, Dessislava H. The Σ^2-conjecture for metabelian groups and some new conjectures: the split extension case. **2001a:20053**
Lenstra, Hendrik W., Jr. *see* **de Smit, Bart, 2001f:20069**
Liu, He Guo Residually finite properties of soluble groups of finite rank. (Chinese. English and Chinese summaries) **2001d:20033**
— Solvable groups of finite rank. (Chinese. English and Chinese summaries) **2001f:20068**
Menegazzo, Federico (*with* Puglisi, Orazio) Outer automorphisms of supersoluble groups. (English summary) **2001b:20058**
Myllylä, Kari *see* **Csörgő, Piroska et al., 2001m:20050**
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O'Sullivan, Niamh Localizations of free soluble groups. (English summary) **2001k:20070**
Perez, Edmundo R., Jr. On products of normal supersoluble subgroups. (English summary) **2001k:20071**
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Celentani, Maria Rosaria (*with* Leone, Antonella) On quasinormal subgroups of infinite groups. (English summary) **2001b:20041**
Csörgő, Piroska On the natural factorization of finite supersolvable groups. **2001c:20043**
Farb, Benson (*with* Mosher, Lee) Problems on the geometry of finitely generated solvable groups. (English summary) **2001j:20064**
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Huang, Ben Wen The structure of groups of order $2^3 p^n$ ($p = 3, 7$). (Chinese. English and Chinese summaries) **2001f:20060**
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Leone, Antonella *see* **Celentani, Maria Rosaria, 2001b:20041**
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Longobardi, Patrizia *see* **Herzog, Marcel et al., 2001a:20056**
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20F17 Formations of groups, Fitting classes [see also 20D10]

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Frécon, Olivier Sous-groupes de Hall généralisés dans les groupes résolubles de rang de Morley fini. [Generalized Hall subgroups of solvable groups of finite Morley rank] **2001k:20069**

20F18 Nilpotent groups [see also 20D15]

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Baumslag, Gilbert Finitely generated residually torsion-free nilpotent groups. I. (English summary) **2001c:20073**
Bazhenova, G. A. On rational sets in finitely generated nilpotent groups. (Russian. Russian summary) **2001h:20040**
Cassidy, Charles (*with* Scevenels, Dirk) Strong genus of nilpotent groups of Hirsch length six. (English summary) **2001j:20050**
— (*with* Kennedy, Neil; Scevenels, Dirk) Hyperbolic automorphisms for groups in $\mathcal{F}(4, 2)$. (English summary) **2001i:20071**
Hołubowski, Waldemar Symmetric words in free nilpotent groups of class 4. (English summary) **2001j:20051**
Jaikin-Zapirain, A. (*with* Khukhro, E. I.) A connection between nilpotent groups and Lie rings. (Russian. Russian summary) **2001j:20052**
Kennedy, Neil *see* **Cassidy, Charles et al., 2001i:20071**
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Magidin Viso, Arturo Absolutely closed nil-2 groups. (English summary) **2001a:20055**
— Dominions in finitely generated nilpotent groups. (English summary) **2001f:20070**
Malfait, Wim Anosov diffeomorphisms on nilmanifolds of dimension at most six. (English summary) **2001h:20041**
Pickel, P. F. (*with* Roitberg, Joseph) Automorphism groups of nilpotent groups and spaces. (English summary) **2001f:20071**
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Smirnova, E. G. The width of a power of a free nilpotent group of degree two. (Russian. Russian summary) **2001c:20074**
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Budkin, A. I. On Levi classes generated by nilpotent groups. (Russian. Russian summary) **2001j:20036**
— (*with* Taranina, L. V.) On Levi quasivarieties generated by nilpotent groups. (Russian. Russian summary) **2001d:20023**
Gilman, Robert H. (*with* Holt, Derek F.; Rees, Sarah) Combing nilpotent and polycyclic groups. (English summary) **2001a:20063**
Heineken, Hermann (*with* Mikaelyan, V. G.) On normal verbal embeddings of groups. (English summary) **2001f:20051**
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Cao, Chongguang *see* **Zhang, Xian² et al., 2001m:20072**
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20F29 Representations of groups as automorphism groups of algebraic systems

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20F34 Fundamental groups and their automorphisms [see also 57M05, 57Sxx]

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20F36 Braid groups; Artin groups

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— Artin groups of finite type with three generators. **2001j:20056**
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— (*with* Nechaev, Sergei) An upper bound for the cardinality of the set of knots generated by one- and two-dimensional braids. (Russian. Russian summary) **2001c:57008**
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Matsuno, Takanori Problem of Fenchel on the complex projective plane and representations of the 3rd braid group. (English summary) (*see* **2001m:14003**)
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20F38 Other groups related to topology or analysis

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Brinkmann, Peter Perimeter and coherence according to McCammond and Wise. (English summary) **2001d:57002**
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Cannon, J. W. (*with* Conner, Gregory R.) The combinatorial structure of the Hawaiian earring group. (English summary) **2001g:20020**
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Champetier, Christophe L'espace des groupes de type fini. (English summary) [The space of finitely generated groups] **2001i:20084**
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Otto, Friedrich On the Dehn functions of automatic monoids. (*see* **2001b:20002**)
Paris, Luis Construction de représentations irréductibles à partir de complexes de groupes. (English and French summaries) [Constructing irreducible representations from complexes of groups] **2001f:57002**
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20F67 Hyperbolic groups and nonpositively curved groups

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Lang, Urs Higher-dimensional linear isoperimetric inequalities in hyperbolic groups. **2001f:20087**
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Noskov, Gen. A. Growth of certain non-positively curved cube groups. (English summary) **2001k:20092**
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Kari, Jarkko (*with* Papasoglu, P.) Deterministic aperiodic tile sets. (English summary) **2001b:52037**
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Myasnikov, A. G.[2] *see* **Baumslag, Gilbert et al., 2001c:20002** *and* **Bencsath, Katalin et al., 2001c:20047**
Papasoglu, P. *see* **Kari, Jarkko, 2001b:52037**
Polekslć, Aleksandar Groups acting on quasiconvex spaces and translation numbers. (English summary) **2001b:20071**
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Scott, Peter (*with* Swarup, Gadde A.) An algebraic annulus theorem. (English summary) **2001k:20090**
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20F69 Asymptotic properties of groups

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Bell, Greg (*with* Dranishnikov, Alexander) On asymptotic dimension of groups. (English summary) **2001m:20062**
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Deng, Hui-wen (*with* Shi, Wu-jie) A class of irrecognizable infinite groups. (English and Chinese summaries)
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Gu, Pei *see* **Lin, Lei**
Kepka, Tomáš (*with* Němec, Petr) Connected transversals—the Zassenhaus case. (English summary) (*see* **2001c:20004**)
Koval', T. V. Groups whose proper nonmaximal subgroups are cyclic or minimal acyclic. (Ukrainian. English and Ukrainian summaries)
Kuzennyĭ, N. F. (*with* Maznichenko, S. V.) Construction of some classes of groups with locally cyclic abelian subgroups. (Ukrainian. English and Ukrainian summaries) **2001b:20073**
Lin, Lei (*with* Gu, Pei) Some examples of metahomomorphisms on groups. (Chinese. English and Chinese summaries)
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20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H56; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55.}

20G05 Representation theory

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Andersen, Henning Haahr A sum formula for tilting filtrations. (English summary) **2001g:20057**
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King, Ronald C. (*with* Wybourne, B. G.) Analogies between finite-dimensional irreducible representations of $SO(2n)$ and infinite-dimensional irreducible representations of $Sp(2n,\mathbf{R})$. I. Characters and products. (English summary) **2001f:20090a**
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Nakano, Daniel K. Some recent developments in the representation theory of general linear and symmetric groups. (English summary) **2001k:20097**
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Pantoja, Jose *see* **Aburto-Hageman, Luisa, 2001b:20074**
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Powell, Geoffrey M. L. The structure of the tensor product of $\mathbf{F}_2[-]$ with a finite functor between $\mathbf{F}_2$-vector spaces. (English and French summaries) **2001h:20065**
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Soergel, Wolfgang On the relation between intersection cohomology and representation theory in positive characteristic. (English summary) **2001k:20098**
Sommers, Eric Conjectures for small representations of the exceptional groups. (English summary) **2001h:20067**
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20G42 Quantum groups (quantized function algebras) and their representations [see also 16W35, 17B37, 81R50]

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20G45 Applications to physics

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20G99 None of the above, but in this section

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20Hxx Other groups of matrices [see also 15A30]

20H05 Unimodular groups, congruence subgroups [see also 11F06, 19B37, 22E40, 51F20]

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20H10 Fuchsian groups and their generalizations [see also 11F06, 22E40, 30F35, 32Nxx]

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20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

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20J06 Cohomology of groups

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20J15 Category of groups

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20Kxx Abelian groups

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20K01 Finite abelian groups

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De Felice, Clelia Hajós factorizations of cyclic groups—a simpler proof of a characterization. (English summary) **2001c:20110**
Fitch, Mark A. (*with* Jamison-Waldner, Robert E.) Minimum sum covers of small cyclic groups. (English summary) **2001m:20089**
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Sands, A. D. Simulated factorizations. III. (English summary) **2001m:20091**
— Replacement of factors by subgroups in the factorization of abelian groups. (English summary) **2001c:20111**
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Hsiang, Jieh *see* **Shieh, Yuh-Pyng et al., 2001m:20032**
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Meng, Jixiang (*with* Ying, Bao) Normal minimal Cayley digraphs of abelian groups. (English summary) **2001f:05077**
Ordaz, Oscar (*with* Quiroz, Domingo) The Erdős-Ginzburg-Ziv theorem in abelian non-cyclic groups. (English and Spanish summaries) **2001k:11024**
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Shieh, Yuh-Pyng (*with* Hsiang, Jieh; Hsu, D. Frank) On the enumeration of abelian K-complete mappings. (English summary) **2001m:20032**
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20K10 Torsion groups, primary groups and generalized primary groups

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— On a theorem of Paul Hill.
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— (*with* Dugas, Manfred; Rangaswamy, K. M.) Finite rank Butler groups and torsion-free modules over a discrete valuation ring. (English summary) **2001e:20045**
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Blazhenov, A. V. On the self-cancellation of torsion-free abelian groups of finite rank. (Russian. English and Russian summaries) **2001a:20091**
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De Vivo, Clorinda (*with* Metelli, Claudia) Admissible matrices as base changes of $B^{(1)}$-groups: a realizing algorithm. (English summary) **2001a:20096**

Duan, Ze Yong *see* **Zhou, Wei[1]**
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Feigelstock, Shalom Uniserial groups. (English summary)
Gardner, B. J. On product-closed radical classes of abelian groups. (English, Russian and Moldavian summaries) **2001f:20121**
Hanna, Latif A-M. On the subgroups of finite indices of $\mathbf{Z}^n$. (English summary) **2001a:20093**
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— (*with* Mutzbauer, Otto; Vinsonhaler, Charles) Local-global relations for almost completely decomposable groups. **2001c:20115**
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Nongxa, Loyiso G. *see* **Mader, Adolf, 2001a:20094**
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Goeters, H. Pat Butler modules over 1-dimensional Noetherian domains. (English summary) **2001c:13015**
Mader, Adolf (*with* Schultz, Phillip) Endomorphism rings and automorphism groups of almost completely decomposable groups. **2001b:20097**
Rangaswamy, K. M. *see* **Bican, Ladislav et al., 2001h:20079**
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Vinsonhaler, Charles *see* **Bican, Ladislav et al., 2001h:20079**

20K20 Torsion-free groups, infinite rank

Bican, Ladislav A note on pure subgroups. (English summary) **2001d:20049**
— (*with* Rangaswamy, K. M.; Vinsonhaler, Charles) Butler groups as smooth ascending unions. (English summary) **2001h:20079**
— Almost Butler groups. (English summary) **2001e:20046**
Blass, Andreas (*with* Irwin, John M.) Purity and Reid's theorem. (English summary) **2001b:20095**
— (*with* Irwin, John M.) Basic subgroups and a freeness criterion for torsion-free abelian groups. (English summary) **2001a:20097**
— (*with* Irwin, John M.) Maximal pure independent sets. **2001m:20096**
Chekhlov, A. R. Quasipure injective torsion-free groups with indecomposable pure subgroups. (Russian. Russian summary) **2001j:20083**
Eklof, Paul C. (*with* Shelah, Saharon) Absolutely rigid systems and absolutely indecomposable groups. (English summary) **2001d:20050**
— (*with* Shelah, Saharon) A non-reflexive Whitehead group. (English summary) **2001k:20117**
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Giovannitti, Anthony J. Groups with locally defined heights and products of $\mathfrak{R}^*$ groups. (English summary) **2001m:20097**
Irwin, John M. *see* **Blass, Andreas, 2001a:20097; 2001b:20095** *and* **2001m:20096**
Ould-Beddi, Mohamed A. (*with* Strüngmann, Lutz) Stacked bases for a pair of homogeneous completely decomposable groups with bounded quotient. (English summary) **2001a:20098**
Rangaswamy, K. M. *see* **Bican, Ladislav et al., 2001h:20079**
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Strüngmann, Lutz *see* **Ould-Beddi, Mohamed A., 2001a:20098**
Vinsonhaler, Charles *see* **Bican, Ladislav et al., 2001h:20079**

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Arnold, David M. (*with* Dugas, Manfred) Finite rank Butler groups with small typesets. **2001b:20093**
— ★ Abelian groups and representations of finite partially ordered sets. (English summary) **2001g:16030**
Contessa, Maria (*with* Mott, Joe L.; Nichols, Warren) Multiplicative groups of fields. **2001f:12004**
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Grinshpon, S. Ya. Completely characteristic subgroups of separable abelian groups. (Russian. English and Russian summaries) **2001i:20113**
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Mader, Adolf (*with* Strüngmann, Lutz) Bounded essential extensions of completely decomposable groups. **2001g:20067**
Mott, Joe L. *see* **Contessa, Maria et al., 2001f:12004**
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Wallutis, Simone L. On the existence of λ-projective splitters. (English summary) **2001g:16020**
— On $\aleph_1$-free modules with trivial dual. **2001h:13014**

20K21 Mixed groups

Albrecht, Ulrich A-projective resolutions and an Azumaya theorem for a class of mixed abelian groups. **2001k:20118**
Conrad, Marc About the kernel of the augmentation of finitely generated Z-modules. (English summary) **2001g:20066**
Feigelstock, Shalom (*with* Hausen, Jutta; Raphael, Robert M.) Abelian groups mapping onto their endomorphism rings. (English summary) **2001c:20116**
Fomin, A. A. Some mixed abelian groups as modules over the ring of pseudo-rational numbers. (English summary) **2001b:20096**
Hausen, Jutta *see* **Feigelstock, Shalom et al., 2001c:20116**
Loth, Peter ★ Classifications of abelian groups and Pontrjagin duality. **2001c:20117**
Mader, Adolf (*with* Strüngmann, Lutz) Bounded essential extensions of completely decomposable groups. **2001g:20067**
Okuyama, Takashi On kernels of purifiability in arbitrary abelian groups. (English summary) **2001m:20098**
Prosvirnina, I. B. Structure of a class of almost completely decomposable abelian groups with finite index of the regulator. (English summary)
Raphael, Robert M. *see* **Feigelstock, Shalom et al., 2001c:20116**
Strüngmann, Lutz *see* **Mader, Adolf, 2001g:20067**

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Contessa, Maria (*with* Mott, Joe L.; Nichols, Warren) Multiplicative groups of fields. **2001f:12004**
Danchev, P. V. Modular group algebras of coproducts of countable abelian groups. (English summary) **2001d:20005**
Göbel, Rüdiger (*with* Opdenhövel, Ansgar) Every endomorphism of a local Warfield module of finite torsion-free rank is the sum of two automorphisms. (English summary) **2001j:20085**
Manuilov, V. M. Almost commutativity implies asymptotic commutativity. (English summary) **2001g:46138**
Mott, Joe L. *see* **Contessa, Maria et al., 2001f:12004**
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20K25 Direct sums, direct products, etc.

Items with secondary classifications in 20K25

Albrecht, Ulrich A-projective resolutions and an Azumaya theorem for a class of mixed abelian groups. **2001k:20118**
Benabdallah, K. (*with* Mader, Adolf; Ould-Beddi, Mohamed A.) Tight subgroups in almost completely decomposable groups. **2001b:20094**
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Ould-Beddi, Mohamed A. (*with* Strüngmann, Lutz) Stacked bases for a pair of homogeneous completely decomposable groups with bounded quotient. (English summary) **2001a:20098**
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Zastrow, Andreas The non-abelian Specker-group is free. (English summary) **2001h:20030**

20K27 Subgroups

Grinshpon, S. Ya. Completely characteristic subgroups of torsion-free abelian groups and their lattices. (Russian. English and Russian summaries) **2001i:20115**

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Blass, Andreas (*with* Irwin, John M.) Basic subgroups and a freeness criterion for torsion-free abelian groups. (English summary) **2001a:20097**

Irwin, John M. *see* **Blass, Andreas, 2001a:20097**

20K30 Automorphisms, homomorphisms, endomorphisms, etc.

Göbel, Rüdiger (*with* Opdenhövel, Ansgar) Every endomorphism of a local Warfield module of finite torsion-free rank is the sum of two automorphisms. (English summary) **2001j:20085**

Gusić, Ivica Remark on homomorphisms of groups.

Kaarli, Kalle (*with* Márki, László) Endoprimal abelian groups. (English summary) **2001e:20047**

Katsurada, Hidenori (*with* Takegahara, Yugen; Yoshida, Tomoyuki) The number of homomorphisms from a finite abelian group to a symmetric group. **2001h:20080**

Khukhro, E. I. On p-groups of automorphisms of abelian p-groups. (Russian. Russian summary) **2001e:20048**

Krylov, P. A. (*with* Pakhomova, E. G.) Abelian groups as injective modules over endomorphism rings. (Russian. English and Russian summaries) **2001h:20081**

— Mixed abelian groups as modules over their endomorphism rings. (Russian. English and Russian summaries) **2001m:20099**

Lyubimtsev, O. V. Separable torsion-free abelian groups with UA-rings of endomorphisms. (Russian. English and Russian summaries)

Mader, Adolf (*with* Schultz, Phillip) Endomorphism rings and automorphism groups of almost completely decomposable groups. **2001b:20097**

Márki, László *see* **Kaarli, Kalle, 2001e:20047**

Mekei, A. On the criticality of endomorphism rings of some finite abelian groups. (Russian. English and Russian summaries)

O'Neill, John D. On homomorphisms between direct products of infinite cyclic groups. **2001h:20082**

Opdenhövel, Ansgar *see* **Göbel, Rüdiger, 2001j:20085**

Pakhomova, E. G. *see* **Krylov, P. A., 2001h:20081**

Schultz, Phillip Automorphism groups of abelian groups. (English summary) **2001m:20100**

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Takegahara, Yugen On Wohlfahrt formula for finite abelian groups. (English summary) **2001k:20119**

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Zhu, De Gao The automorphism group of the abelian 2-group of type $[1, n]$. (Chinese. English and Chinese summaries) **2001a:20099**

Zhurtov, A. Kh. On quadratic automorphisms of abelian groups. (Russian. Russian summary) **2001e:20049**

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Baumslag, Gilbert (*with* Myasnikov, A. G.[2]; Remeslennikov, Vladimir) Discriminating and co-discriminating groups. **2001i:20062**

Blagoveshchenskaya, E. (*with* Ivanov, George; Schultz, Phillip) The Baer-Kaplansky theorem for almost completely decomposable groups. (English summary) **2001m:20092**

Chekhlov, A. R. Quasipure injective torsion-free groups with indecomposable pure subgroups. (Russian. Russian summary) **2001j:20083**

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Hausen, Jutta *see* **Feigelstock, Shalom et al., 2001c:20116**

Ivanov, George *see* **Blagoveshchenskaya, E. et al., 2001m:20092**

Lebedinskiĭ, D. M. Computation of the mapping of factorization by the radical for K_0^+ of the endomorphism ring. (Russian. English and Russian summaries) **2001c:16017**

Myasnikov, A. G.[2] *see* **Baumslag, Gilbert et al., 2001i:20062**

O'Meara, K. C. (*with* Vinsonhaler, Charles) Generalizations of isomorphism in torsion-free abelian groups. (English summary) **2001m:20094**

Popa, Valeriu On endomorphism rings without nonzero nilpotent elements. I. (English, Russian and Moldavian summaries) **2001i:22007**

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Raphael, Robert M. *see* **Feigelstock, Shalom et al., 2001c:20116**

Reid, James D. Some matrix rings associated with ACD groups. (English summary) **2001a:20095**

Remeslennikov, Vladimir *see* **Baumslag, Gilbert et al., 2001i:20062**

Schultz, Phillip *see* **Blagoveshchenskaya, E. et al., 2001m:20092**

Vinsonhaler, Charles *see* **O'Meara, K. C., 2001m:20094**

20K35 Extensions

Göbel, Rüdiger (*with* Shelah, Saharon) Cotorsion theories and splitters. (English summary) **2001b:20098**

— (*with* Trlifaj, Jan) Large indecomposable roots of Ext. (English summary) **2001k:20120**

Shelah, Saharon *see* **Göbel, Rüdiger, 2001b:20098**

Trlifaj, Jan *see* **Göbel, Rüdiger, 2001k:20120**

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Eklof, Paul C. (*with* Shelah, Saharon) A non-reflexive Whitehead group. (English summary) **2001k:20117**

Loth, Peter Topologically pure extensions. (English summary) **2001m:22008**

Mader, Adolf (*with* Schultz, Phillip) Endomorphism rings and automorphism groups of almost completely decomposable groups. **2001b:20097**

— (*with* Strüngmann, Lutz) Bounded essential extensions of completely decomposable groups. **2001g:20067**

Schultz, Phillip *see* **Mader, Adolf, 2001b:20097**

Shelah, Saharon *see* **Eklof, Paul C., 2001k:20117**

Strüngmann, Lutz *see* **Mader, Adolf, 2001g:20067**

20K40 Homological and categorical methods

Göbel, Rüdiger (*with* Trlifaj, Jan) Cotilting and a hierarchy of almost cotorsion groups. (English summary) **2001a:20100**

Leopold, Christian On the compact-open topology of $\mathrm{Ext}(C, A)$. (English summary) **2001b:20099**

Malyshev, E. B. On the direct summands of a tensor product. (Russian. English and Russian summaries)

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20Mxx Semigroups

20M05 Free semigroups, generators and relations, word problems

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20M10 General structure theory

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20M11 Radical theory

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20M19 Orthodox semigroups

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20M20 Semigroups of transformations, etc. [see also 47D03, 47H20, 54H15]

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20M25 Semigroup rings, multiplicative semigroups of rings [see also 16S36, 16Y60]

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20M50 Connections of semigroups with homological algebra and category theory

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Jun, Young Bae *see* **Kim, Kyung Ho**, **2001h:16056**
Kim, Kyung Ho (*with* Jun, Young Bae) On fuzzy R-subgroups of near-rings. (English summary) **2001h:16056**
Li, Xiao-ping (*with* Wang, Gui Jun) Intuitionistic fuzzy group and its homomorphic image. (Chinese. English and Chinese summaries) **2001j:03100**
Scarparo, Renato César (*with* Gordon Cabral, Armando) Characterization of L-fuzzy algebraic structures and sets. (Spanish. Spanish summary)
Wang, Gui Jun *see* **Li, Xiao-ping**, **2001j:03100**

20N99 None of the above, but in this section

Drápal, Aleš On a term rewriting system controlled by sequences of integers. (English summary) **2001j:20112**
Mikhalëv, A. V. (*with* Shatalova, M. A.) The prime radical of Ω-groups and Ω-l-groups. (Russian. English and Russian summaries)
Shatalova, M. A. *see* **Mikhalëv, A. V.**
Yagodovskiĭ, P. V. Homogeneous deformations of discrete groups. (Russian. English and Russian summaries)

Items with secondary classifications in 20N99

Andréka, Hajnal *see* **Givant, Steven**, (**2001d:00025**)
Givant, Steven (*with* Andréka, Hajnal) Relation algebras and groups. (English summary) (*see* **2001d:00025**)
Kaleta, Joanna On ideals, filters and weak distributivity in generalized Boolean quasirings. (English summary) **2001h:16059**
Yagodovskiĭ, P. V. Linear deformation of discrete groups, and constructions of multivalued groups. (Russian. Russian summary) **2001k:16050**

20P05 Probabilistic methods in group theory [see also 60Bxx]

Babai, László (*with* Pak, Igor) Strong bias of group generators: an obstacle to the "product replacement algorithm". (English summary) **2001c:20157**
Bikbov, R. R. *see* **Vershik, A. M. et al.**, **2001d:20073**
Bratus, Sergey *see* **Pak, Igor**

Davenport, J. H. (*with* Smith, Geoff C.) Fast recognition of alternating and symmetric Galois groups. (English summary) **2001j:20113**

Fulman, Jason E. The eigenvalue distribution of a random unipotent matrix in its representation on lines. (English summary) **2001d:20072**

Nechaev, Sergei *see* **Vershik, A. M. et al., 2001d:20073**

Pak, Igor (*with* Bratus, Sergey) On sampling generating sets of finite groups and product replacement algorithm (extended abstract).

— *see also* **Babai, László, 2001c:20157**

Shalev, Aner Probabilistic group theory. (English summary) **2001b:20117**

Smith, Geoff C. *see* **Davenport, J. H., 2001j:20113**

Vershik, A. M. (*with* Nechaev, Sergei; Bikbov, R. R.) Statistical properties of locally free groups with applications to braid groups and growth of random heaps. (English summary) **2001d:20073**

Items with secondary classifications in 20P05

Arzhantseva, G. N. A property of subgroups of infinite index in a free group. (English summary) **2001b:20040**

Evans, Steven N. Random spanning trees of Cayley graphs and an associated compactification of semigroups. (English summary) **2001h:60012**

Fulman, Jason E. Cycle indices for the finite classical groups. (English summary) **2001d:20045**

— Affine shuffles, shuffles with cuts, the Whitehouse module, and patience sorting. (English summary) **2001j:05121**

Grigorchuk, Rostislav I. On Tychonoff groups. **2001g:20043**

Kerov, Sergei V. A differential model for the growth of Young diagrams. **2001h:05104**

Roussel, Sandrine Phénomène de cutoff pour certaines marches aléatoires sur le groupe symétrique. (English summary) [Cutoff phenomenon for certain random walks on the symmetric group] **2001m:60019**

22–XX Topological groups, Lie groups {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX.}

22–01 Instructional exposition (textbooks, tutorial papers, etc.)

Berlanga Zubiaga, Ricardo (*with* Hernández Lamoneda, Luis; Sánchez Valenzuela, Adolfo) Introduction to the geometry of Lie groups. (Spanish) **2001i:22001**
(Danskin, John M., Jr.) *see* **Lie groups and Lie algebras, 2001a:22001**
Fabec, Raymond C. ★ Fundamentals of infinite dimensional representation theory. (English summary) **2001m:22001**
Hernández Lamoneda, Luis *see* **Berlanga Zubiaga, Ricardo et al., 2001i:22001**
(Onishchik, A. L.) *see* **Lie groups and Lie algebras, 2001a:22001**
Sánchez Valenzuela, Adolfo *see* **Berlanga Zubiaga, Ricardo et al., 2001i:22001**
(Vinberg, È. B.) *see* **Lie groups and Lie algebras, 2001a:22001**

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Encyclopaedia of Mathematical Sciences ★ Lie groups and Lie algebras. II. **2001a:22001**
Lie groups and Lie algebras ★ Lie groups and Lie algebras. II. **2001a:22001**

Items with secondary classifications in 22–01

Duistermaat, J. J. (*with* Kolk, J. A. C.) ★ Lie groups. (English summary) **2001j:22008**
Faraut, Jacques (*with* Kaneyuki, Soji; Korányi, Adam; Lu, Qi-keng; Roos, Guy) ★ Analysis and geometry on complex homogeneous domains. (English summary) **2001f:32036**
Kaneyuki, Soji *see* **Faraut, Jacques et al., 2001f:32036**
Kolk, J. A. C. *see* **Duistermaat, J. J., 2001j:22008**
Korányi, Adam *see* **Faraut, Jacques et al., 2001f:32036**
Lu, Qi-keng *see* **Faraut, Jacques et al., 2001f:32036**
Roos, Guy *see* **Faraut, Jacques et al., 2001f:32036**
Taimanov, Iskander A. ★ Лекции по дифференциальной геометрии. III. (Russian. Russian summary) [Lectures in differential geometry. III] **2001b:53001**

Items listed otherwise than by author

Progress in Mathematics *see* **Faraut, Jacques et al., 2001f:32036**

22–02 Research exposition (monographs, survey articles)

(Dixmier, J.) *see* **Pukánszky, Lajos, 2001g:22001**
(Duflo, Michel) *see* **Pukánszky, Lajos, 2001g:22001**
Feres, Renato ★ Dynamical systems and semisimple groups: an introduction. (English summary) **2001d:22001**
Helgason, Sigurdur ★ Groups and geometric analysis. (English summary) **2001h:22001**
Pukánszky, Lajos ★ Characters of connected Lie groups. (English summary) **2001g:22001**

Items with secondary classifications in 22–02

Adams, Jeffrey Characters of non-linear groups. **2001f:22052**
Faraut, Jacques (*with* Kaneyuki, Soji; Korányi, Adam; Lu, Qi-keng; Roos, Guy) ★ Analysis and geometry on complex homogeneous domains. (English summary) **2001f:32036**
He, Hongyu L. Theta correspondence. I. Semistable range: construction and irreducibility. (English summary) **2001f:22043**
Howe, Roger E. Harish-Chandra homomorphisms. (English summary) **2001d:22011**
Kaneyuki, Soji *see* **Faraut, Jacques et al., 2001f:32036**
Korányi, Adam *see* **Faraut, Jacques et al., 2001f:32036**
Li, Jian-Shu Minimal representations & reductive dual pairs. **2001a:22013**
Lu, Qi-keng *see* **Faraut, Jacques et al., 2001f:32036**
Paterson, Alan L. T. ★ Groupoids, inverse semigroups, and their operator algebras. (English summary) **2001a:22003**
Ratner, Marina On the p-adic and S-arithmetic generalizations of Raghunathan's conjectures. (English summary) **2001f:22058**
Roos, Guy *see* **Faraut, Jacques et al., 2001f:32036**
Shimomura, Hiroaki Unitary representations and 1-cocycles on the group of diffeomorphisms. (English summary) **2001a:22016**

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22–03 Historical (must also be assigned at least one classification number from Section 01)

(Harish-Chandra) *see* **Varadarajan, V. S., 2001f:22001**
Hawkins, Thomas Weyl and the topology of continuous groups. **2001j:22001**
Varadarajan, V. S. Harish-Chandra, his work, and its legacy. (English summary) **2001f:22001**
(Weyl, Hermann) *see* **Hawkins, Thomas, 2001j:22001**

Items with secondary classifications in 22–03

Gamkrelidze, Revaz Valerianovich The mathematical work of L. S. Pontryagin. **2001h:01024**
Hawkins, Thomas ★ Emergence of the theory of Lie groups. (English summary) **2001f:01031**
Lie, Sophus Marius Sophus Lie's doctoral thesis "Over en Classe geometriske Transformationer" ["On a class of geometrical transformations"]. (English summary) **2001a:01072**
(Pontryagin, L. S.) *see* **Gamkrelidze, Revaz Valerianovich, 2001h:01024**
(Santilli, Ruggero Maria) *see* **Lie, Sophus, 2001a:01072**
(Trell, Erik) *see* **Lie, Sophus, 2001a:01072**

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Biography:
Lie, Sophus *see* **Lie, Sophus, 2001a:01072**

22–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 22–04

Celledoni, Elena (*with* Iserles, Arieh) Approximating the exponential from a Lie algebra to a Lie group. (English summary) **2001a:22007**
Iserles, Arieh *see* **Celledoni, Elena, 2001a:22007**
Li, Lu[3] *see* **Peng, Qi et al.**
Peng, Qi (*with* Li, Lu[3]; Ruan, Dong) $SO(N) \supset SO(N-1)$ reduction factor and its Mathematica software. (Chinese. English and Chinese summaries)
Ruan, Dong *see* **Peng, Qi et al.**
Zanna, Antonella Collocation and relaxed collocation for the Fer and the Magnus expansions. (English summary) **2001c:65098**

22–06 Proceedings, conferences, collections, etc.

(Doran, Robert S.) *see* **Mathematical legacy of Harish-Chandra, 2001b:22001**
(Harish-Chandra) *see* **Mathematical legacy of Harish-Chandra, 2001b:22001**
(Kashiwara, Masaki) *see* **Analysis on homogeneous spaces and representation theory of Lie groups, Okayama–Kyoto, 2001a:22002**
(Kobayashi, Toshiyuki[1]) *see* **Analysis on homogeneous spaces and representation theory of Lie groups, Okayama–Kyoto, 2001a:22002**
(Matsuki, Toshihiko) *see* **Analysis on homogeneous spaces and representation theory of Lie groups, Okayama–Kyoto, 2001a:22002**
(Nishiyama, Kyo) *see* **Analysis on homogeneous spaces and representation theory of Lie groups, Okayama–Kyoto, 2001a:22002**
(Oshima, Toshio) *see* **Analysis on homogeneous spaces and representation theory of Lie groups, Okayama–Kyoto, 2001a:22002**
(Varadarajan, V. S.) *see* **Mathematical legacy of Harish-Chandra, 2001b:22001**

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Analysis on homogeneous spaces and representation theory of Lie groups, Okayama–Kyoto ★ Analysis on homogeneous spaces and representation theory of Lie groups, Okayama-Kyoto. **2001a:22002**
Anniversary:
Birth of Harish-Chandra ★ The mathematical legacy of Harish-Chandra. **2001b:22001**
Baltimore, MD ★ The mathematical legacy of Harish-Chandra. **2001b:22001**
Kyoto ★ Analysis on homogeneous spaces and representation theory of Lie groups, Okayama-Kyoto. **2001a:22002**
Mathematical legacy of Harish-Chandra ★ The mathematical legacy of Harish-Chandra. **2001b:22001**
Okayama ★ Analysis on homogeneous spaces and representation theory of Lie groups, Okayama-Kyoto. **2001a:22002**
Proceedings of Symposia in Pure Mathematics ★ The mathematical legacy of Harish-Chandra. **2001b:22001**
Session:
Representation Theory and Noncommutative Harmonic Analysis ★ The mathematical legacy of Harish-Chandra. **2001b:22001**
Symposium:
Analysis on Homogeneous Spaces and Representations of Lie Groups ★ Analysis on homogeneous spaces and representation theory of Lie groups, Okayama-Kyoto. **2001a:22002**

Items with secondary classifications in 22–06

(Abels, Herbert) *see* **Crystallographic groups and their generalizations, 2001e:00018**
(Félix, Yves) *see* **Crystallographic groups and their generalizations, 2001e:00018**
(Grunewald, Fritz) *see* **Crystallographic groups and their generalizations, 2001e:00018**
(Heyer, Herbert) *see* **Analysis on infinite-dimensional Lie groups and algebras, 2001d:00027**
(Igodt, Paul) *see* **Crystallographic groups and their generalizations, 2001e:00018**
(Marion, Jean A.) *see* **Analysis on infinite-dimensional Lie groups and algebras, 2001d:00027**

Items listed otherwise than by author

Analysis on infinite-dimensional Lie groups and algebras ★ Analysis on infinite-dimensional Lie groups and algebras. **2001d:00027**
Colloquium:
Analysis on Infinite-Dimensional Lie Groups and Algebras ★ Analysis on infinite-dimensional Lie groups and algebras. **2001d:00027**
Conference:
Lie Groups, Geometric Structures and Differential Equations—One Hundred Years after Sophus Lie ★ Sōfisu Rii botsugo hyakunen kinen kokusai kenkyū shūkai. [Lie groups, geometric structures and differential equations—one hundred years after Sophus Lie] **2001f:58004**
Contemporary Mathematics ★ Crystallographic groups and their generalizations. **2001e:00018**
Crystallographic groups and their generalizations ★ Crystallographic groups and their generalizations. **2001e:00018**
Kortrijk ★ Crystallographic groups and their generalizations. **2001e:00018**
Lie groups, geometric structures and differential equations—one hundred years after Sophus Lie ★ Sōfisu Rii botsugo hyakunen kinen kokusai kenkyū shūkai. [Lie groups, geometric structures and differential equations—one hundred years after Sophus Lie] **2001f:58004**
Marseille ★ Analysis on infinite-dimensional Lie groups and algebras. **2001d:00027**

Representation theory of groups and rings and non-commutative harmonic analysis ★ Gun to kan no hyōgen ron oyobi hikakan chōwa kaiseki. (Japanese) [Representation theory of groups and rings and non-commutative harmonic analysis] **2001m:00025**

Workshop:

Crystallographic Groups and their Generalizations ★ Crystallographic groups and their generalizations. **2001e:00018**

22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80.}

22A05 Structure of general topological groups

Banakh, T. O. Locally minimal topological groups and their embeddings into products of o-bounded groups. (English summary) **2001j:22002**

Banaszczyk, W. (*with* Martín-Peinador, E.) Weakly pseudocompact subsets of nuclear groups. (English summary) **2001i:22002**

Berestovskiĭ, V. N. (*with* Gichev, V. M.) Metrized left-invariant orders on topological groups. (Russian. Russian summary) **2001f:22002**

Boschi, Elena (*with* Dikranjan, Dikran) Essential subgroups of topological groups. (English summary) **2001k:22001**

Clark, Bradd *see* **Ledet, Robert, 2001d:22002**

Comfort, W. W. (*with* García-Ferreira, Salvador) Dense subsets of maximally almost periodic groups. (English summary) **2001e:22001**

Dikranjan, Dikran (*with* Tkachenko, Mikhail G.) Sequentially complete groups: dimension and minimality. (English summary) **2001m:22002**

— *see also* **Boschi, Elena, 2001k:22001**

Edamatsu, Takashi On the bamboo-shoot topology of certain inductive limits of topological groups. **2001i:22003**

Galindo, Jorge (*with* Hernández, Salvador) The concept of boundedness and the Bohr compactification of a MAP abelian group. (English summary) **2001c:22001**

García-Ferreira, Salvador *see* **Comfort, W. W., 2001e:22001**

Gichev, V. M. *see* **Berestovskiĭ, V. N., 2001f:22002**

Hernández, Salvador *see* **Galindo, Jorge, 2001c:22001**

Hernández García, Constancio (*with* Robbie, Desmond A.; Tkachenko, Mikhail G.) Some properties of o-bounded and strictly o-bounded groups. (English summary) **2001g:22002**

Itzkowitz, Gerald On balanced topological groups. (English summary) **2001c:22002**

Ledet, Robert (*with* Clark, Bradd) T_Ω-sequences in abelian groups. (English summary) **2001d:22002**

Martín-Peinador, E. *see* **Banaszczyk, W., 2001i:22002**

Morris, Sidney A. (*with* Pestov, Vladimir) Subgroups of monothetic groups. (English summary) **2001k:22002**

Mukhin, Yu. N. On topological groups with a countable set of monothetic subgroups. (Russian) **2001f:22003**

Murase, Nobuyuki (*with* Ohta, Haruto) Group topologies on the complex numbers with special convergence. (English summary) **2001b:22002**

— (*with* Ohta, Haruto) Group topologies on the complex numbers with special convergence. II. (English summary) **2001b:22003**

Ohta, Haruto *see* **Murase, Nobuyuki, 2001b:22002** *and* **2001b:22003**

Pestov, Vladimir *see* **Morris, Sidney A., 2001k:22002**

Protasov, Igor Vladimirovich Resolvability of groups. (Russian. English and Russian summaries) **2001f:22004**

— Indecomposable topologies on groups. (Russian. English and Ukrainian summaries) **2001f:22005**

— (*with* Vasil'eva, V. A.) Some new kinds of resolvability of abelian groups. (Ukrainian summary) **2001i:22004**

— Equations in βG and the decomposability of abelian groups. (Russian) **2001b:22004**

Robbie, Desmond A. *see* **Hernández García, Constancio et al., 2001g:22002**

Romaguera, Salvador (*with* Sanchis, Manuel) Locally compact topological groups and cofinal completeness. (English summary) **2001h:22002**

Sanchis, Manuel *see* **Romaguera, Salvador, 2001h:22002**

Shkarin, Stanislav A. On universal abelian topological groups. (Russian. Russian summary) **2001g:22003**

— On Q-universal normed groups. (Russian) **2001f:22006**

Tkachenko, Mikhail G. Topological groups for topologists. I. **2001c:22003**

— Topological groups for topologists. II. **2001g:22004**

— *see also* **Hernández García, Constancio et al., 2001g:22002** *and* **Dikranjan, Dikran, 2001m:22002**

Uspenskiĭ, Vladimir V. The Roelcke compactification of groups of homeomorphisms. (English summary) **2001k:22003**

Vasil'eva, V. A. *see* **Protasov, Igor Vladimirovich, 2001i:22004**

Yang, Zhi Min Grey topological groups. (Chinese. English and Chinese summaries)

Zelenyuk, E. G. Decomposability of topological groups. (Russian. English and Ukrainian summaries) **2001f:22007**

Items with secondary classifications in 22A05

Alas, O. T. (*with* Tkachenko, Mikhail G.; Tkachuk, V. V.; Wilson, Richard Gordon) Connectedness and local connectedness of topological groups and extensions. (English summary) **2001c:54030**

Arkhangel'skiĭ, A. V. Moscow spaces, Pestov-Tkačenko problem, and C-embeddings. (English summary) **2001k:54062**

Banakh, T. O. (*with* Zarichnyĭ, M. M.) The interval $[0, 1]$ admits no functorial embedding into a finite-dimensional or metrizable topological group. (English summary) **2001b:54012**

Castillo, Jesús M. F. On the "three-space" problem for locally quasi-convex topological groups. (English summary) **2001c:46009**

Comfort, W. W. (*with* García-Ferreira, Salvador) Strongly extraresolvable groups and spaces. (English summary) **2001k:54064**

Danilenko, A. I. Endomorphisms of measured equivalence relations, cocycles with values in non-locally compact groups and applications. (English summary) **2001j:37006**

García-Ferreira, Salvador *see* **Comfort, W. W., 2001k:54064**

Grigoryan, Suren Arshakovich (*with* Gumerov, R. N.; Kazantsev, A. V.) Group structure in finite coverings of compact solenoidal groups. (English summary) **2001j:54046**

Gumerov, R. N. *see* **Grigoryan, Suren Arshakovich et al., 2001j:54046**

Kallman, Robert R. Every reasonably sized matrix group is a subgroup of S_∞. (English summary) **2001h:20005**

Kazantsev, A. V. *see* **Grigoryan, Suren Arshakovich et al., 2001j:54046**

Liu, Chuan (*with* Sakai, Masami; Tanaka, Yoshio[1]) Topological groups, k-networks, and weak topology. (*see* **2001a:54001**)

Malykhin, V. I. Irresolvable countable spaces of weight less than $\mathfrak{c}$. (English summary) **2001b:54008**

— New results on totally bounded groups. (Russian) **2001b:54046**

Romaguera, Salvador (*with* Sanchis, Manuel) Completeness of hyperspaces on topological groups. (English summary) **2001f:54009**

Sakai, Masami *see* **Liu, Chuan et al., (2001a:54001)**

Sanchis, Manuel *see* **Romaguera, Salvador, 2001f:54009**

Shakhmatov, Dmitrii B. Recent progress in topological groups: selected topics. (*see* **2001m:54001**)

Shell, Niel Simple and compact direct topologies. (English summary) **2001i:54044**

Tanaka, Yoshio[1] *see* **Liu, Chuan et al., (2001a:54001)**

Tkachenko, Mikhail G. *see* **Alas, O. T. et al., 2001c:54030**

Tkachuk, V. V. *see* **Alas, O. T. et al., 2001c:54030**

Tomita, Artur Hideyuki On the number of countably compact group topologies on a free abelian group. (English summary) **2001b:54047**

Wilson, Richard Gordon *see* **Alas, O. T. et al., 2001c:54030**

Yamada, Kohzo Is the free topological group on a c.c.c. space c.c.c.? (English summary) (*see* **2001a:54001**)

Zarichnyĭ, M. M. Strongly countable-dimensional resolvents of sigma-compact groups. (Russian. English and Russian summaries) **2001h:54066**

— *see also* **Banakh, T. O., 2001b:54012**

Zelenyuk, E. G. Extremal ultrafilters and topologies on groups. (Russian. English and Russian summaries) **2001k:54065**

22A10 Analysis on general topological groups

Hindman, Neil (*with* Protasov, Igor Vladimirovich; Strauss, Dona Papert) Strongly summable ultrafilters on abelian groups. (English and Russian summaries) **2001d:22003**

Protasov, Igor Vladimirovich (*with* Zelenyuk, E. G.) ★ Topologies on groups determined by sequences. **2001i:22005**

— *see also* **Hindman, Neil et al., 2001d:22003**

Strauss, Dona Papert *see* **Hindman, Neil et al., 2001d:22003**

Troallic, Jean Pierre Equicontinuity, uniform continuity and sequences in topological groups. (English summary) **2001b:22005**

Zelenyuk, E. G. *see* **Protasov, Igor Vladimirovich, 2001i:22005**

Items with secondary classifications in 22A10

Bella, Angelo (*with* Malykhin, V. I.) On certain subsets of a group. **2001b:54001**

Ding, Guanggui The uniform boundedness principle in some topological vector groups. (English summary) **2001e:46002**

Lyudkovskiĭ, S. V. Quasi-invariant measures on a group of diffeomorphisms of an infinite-dimensional real manifold and induced irreducible unitary representations. (English summary) **2001f:58026**

Malykhin, V. I. *see* **Bella, Angelo, 2001b:54001**

Troallic, Jean Pierre Boundedness in $\mathscr{C}_p(X, Y)$ and equicontinuity. (English summary) **2001h:54022**

22A15 Structure of topological semigroups

Aminpour, A. M. Compact semigroups with one sided continuity associated with commutative oids.

Barker, George Phillip Idempotents in the universal compactification of a cone. (English summary) **2001j:22003**

Breckner, Brigitte The Bohr compactification of divisible subsemigroups of a cylinder. (English summary) **2001j:22004**

Ho, Phoebe (*with* So, Shing S.) Right simple subsemigroups and right subgroups of compact convergence semigroups. (English summary) **2001f:22008**

Hofmann, Karl Heinrich An illustration of the power of structure theory. (English summary) **2001m:22003**

Lawson, Jimmie D. (*with* Lim, Yongdo) Lie semigroups with triple decompositions. (English summary) **2001g:22005**

Lim, Yongdo *see* **Lawson, Jimmie D., 2001g:22005**

Millington, H. G. R. Translation invariant bases in uniform semigroups. (English summary) **2001m:22004**

Molaei, M. R. Topological generalized groups. (English summary) **2001f:22009**

So, Shing S. (*with* Wicks, Ed.) A decomposition of convergence semigroups and its properties on compact convergence right groups. (English summary) **2001e:22002**

— *see also* **Ho, Phoebe, 2001f:22008**

Wicks, Ed. *see* **So, Shing S., 2001e:22002**

Items with secondary classifications in 22A15

Hindman, Neil (*with* Protasov, Igor Vladimirovich; Strauss, Dona Papert) Topologies on S determined by idempotents in βS. (English summary) **2001j:54048**

Jalilian, A. (*with* Pourabdollah, M. A.) Universal compactifications of transformation semigroups. (English summary) **2001m:54038**

Khadem-Maboudi, A. A. (*with* Pourabdollah, M. A.) Means, homomorphisms, and compactifications of weighted semitopological semigroups. (English summary) **2001m:43004**

Lim, Yongdo Strict contractions of symmetric cones. **2001k:32039**

Pourabdollah, M. A. *see* **Khadem-Maboudi, A. A., 2001m:43004** *and* **Jalilian, A., 2001m:54038**
Protasov, Igor Vladimirovich Resolvability of groups. (Russian. English and Russian summaries) **2001f:22004**
— *see also* **Hindman, Neil et al., 2001j:54048**
Strauss, Dona Papert *see* **Hindman, Neil et al., 2001j:54048**
Uspenskiĭ, Vladimir V. The Roelcke compactification of groups of homeomorphisms. (English summary) **2001k:22003**

22A20 Analysis on topological semigroups

Kenderov, Petar S. (*with* Kortezov, Ivaylo S.; Moors, Warren B.) Topological games and topological groups. (English summary) **2001h:22003**
Kortezov, Ivaylo S. *see* **Kenderov, Petar S. et al., 2001h:22003**
Moors, Warren B. *see* **Kenderov, Petar S. et al., 2001h:22003**

Items with secondary classifications in 22A20

Breckner, Brigitte The Bohr compactification of divisible subsemigroups of a cylinder. (English summary) **2001j:22004**

22A22 Topological groupoids (including differentiable and Lie groupoids) [see also 58H05]

Anantharaman-Delaroche, C. (*with* Renault, Jean N.) ★ Amenable groupoids. (English summary) **2001m:22005**
Chiriac, Liubomir About topological groupoids with division. (English summary) **2001c:22004**
(Germain, E.) *see* **Anantharaman-Delaroche, C., 2001m:22005**
Mrčun, Janez Functoriality of the bimodule associated to a Hilsum-Skandalis map. (English summary) **2001k:22004**
Paterson, Alan L. T. ★ Groupoids, inverse semigroups, and their operator algebras. (English summary) **2001a:22003**
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Renault, Jean N. *see* **Anantharaman-Delaroche, C., 2001m:22005**
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22A30 Other topological algebraic systems and their representations

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22Bxx Locally compact abelian groups (LCA groups)

22B05 General properties and structure of LCA groups

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Chojnacki, Wojciech A characterisation of the circle group. (English summary) **2001f:22010**
Digernes, T. (*with* Husstad, E.; Varadarajan, V. S.) Finite approximation of Weyl systems. (English summary) **2001b:22006**
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Loth, Peter When is a discrete bounded subgroup of an LCA group necessarily a topological direct summand? (English summary) **2001k:22006**
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Popa, Valeriu LCA groups with topologically simple ring of continuous endomorphisms. (English, Russian and Moldavian summaries) **2001i:22006**
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22B10 Structure of group algebras of LCA groups

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Hofmann, Karl Heinrich (*with* Martin, John R.) G-spaces and fixed point sets. (English summary) **2001k:22008**
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Chigogidze, Alex Compact groups and absolute extensors. (English summary) **2001f:54040**
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Jakubík, Ján Nearly disjoint sequences in convergence l-groups. (English summary) **2001b:06031**
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22Dxx Locally compact groups and their algebras

22D05 General properties and structure of locally compact groups

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Plaut, Conrad *see* **Berestovskiĭ, V. N. et al.**
Remus, Dieter (*with* Trigos-Arrieta, F. Javier) The Bohr topology of Moore groups. (English summary) **2001j:22005**
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Kaniuth, Eberhard (*with* Lau, Anthony T.) A separation property of positive definite functions on locally compact groups and applications to Fourier algebras. (English summary) **2001m:43012**
Kirchberg, Eberhard (*with* Wassermann, Simon) Permanence properties of C^*-exact groups. (English summary) **2001i:46089**
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De Vito, Ernesto *see* **Cassinelli, Gianni et al., 2001h:22005**
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Mayer, Matthias (*with* Saller, Christian) Simple motion systems and Banach spaces associated to uniformly bounded representations. (English summary) **2001a:22005**
Pestov, Vladimir Amenable representations and dynamics of the unit sphere in an infinite-dimensional Hilbert space. (English summary) **2001m:22012**
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Bekka, Mohammed El Bachir (*with* Mayer, Matthias) On Kazhdan's property (T) and Kazhdan constants associated to a Laplacian for $SL(3, \mathbf{R})$. (English summary) **2001f:22033**
Clarkson, Eric Angular channels in a multidimensional wavelet transform. (English summary) **2001e:43001**
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Nogueira, Arnaldo C. R. Invariant measures for the action of $SL(2, \mathbf{Z})$ on $\mathbf{R}^2$. (English summary) **2001a:37006**
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Remus, Dieter (*with* Trigos-Arrieta, F. Javier) The Bohr topology of Moore groups. (English summary) **2001j:22005**
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Stachura, Piotr Manageability of multiplicative unitaries associated with double Lie groups. (English summary) **2001i:81137**
Trigos-Arrieta, F. Javier *see* **Remus, Dieter, 2001j:22005**
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22D12 Other representations of locally compact groups

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Shtern, A. I. Rigidity and approximation of quasirepresentations of amenable groups. (Russian. Russian summary) **2001b:22008**

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Han, De Guang (*with* Larson, David R.) Frames, bases and group representations. (English summary) **2001a:47013**
Jaming, Philippe (*with* Moran, William) Tensor products and p-induction of representations on Banach spaces. (English summary) **2001g:22008**
Larson, David R. *see* **Han, De Guang, 2001a:47013**
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Moran, William *see* **Jaming, Philippe, 2001g:22008**
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22D15 Group algebras of locally compact groups

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Jaming, Philippe (*with* Moran, William) Tensor products and p-induction of representations on Banach spaces. (English summary) **2001g:22008**
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22D20 Representations of group algebras

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Junghenn, Hugo Dieter (*with* Milnes, Paul) Analysis on a discrete 6-dimensional nilpotent group. (English summary) **2001d:22004**
McGregor, C. M. *see* **Crabb, M. J., 2001f:20008**
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22D25 C^*-algebras and W^*-algebras in relation to group representations [see also 46Lxx]

Bekka, Mohammed El Bachir On the full C^*-algebras of arithmetic groups and the congruence subgroup problem. (English summary) **2001f:22016**

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Sudo, Takahiro Structure of group C^*-algebras of Lie semi-direct products of **R** or **C** by Lie groups. (English summary) **2001a:22006**

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Baum, Paul (*with* Connes, Alain) Geometric K-theory for Lie groups and foliations. **2001i:19006**

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Echterhoff, Siegfried (*with* Williams, Dana P.) Crossed products by $C_0(X)$-actions. (English summary) **2001b:46105**

— (*with* Raeburn, Iain) Induced C^*-algebras, coactions and equivariance in the symmetric imprimitivity theorem. (English summary) **2001g:46133**

Evans, David E. *see* **Böckenhauer, Jens et al., 2001c:81180**

Exel, Ruy Partial representations and amenable Fell bundles over free groups. (English summary) **2001c:46109**

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Guentner, Erik (*with* Higson, Nigel; Trout, Jody) Equivariant E-theory for C^*-algebras. (English summary) **2001c:46124**

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Kahng, Byung-Jay Non-compact quantum groups arising from Heisenberg type Lie bialgebras. (English summary) **2001j:46111**

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Miri, M. R. (*with* Pourabdollah, M. A.) Recapturing semigroup compactifications of a group from those of its closed normal subgroups. (English summary) **2001c:43005**

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Spronk, Nico (*with* Wood, Peter J.) Diagonal type conditions on group C^*-algebras. (English summary) **2001k:46092**

Stachura, Piotr Manageability of multiplicative unitaries associated with double Lie groups. (English summary) **2001i:81137**

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22D30 Induced representations

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Pavel, Liliana Induced representations of hypergroups and positive definite measures. (English and French summaries) **2001i:22009**

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Breuer, Thomas Othmar Quantization by systems of covariance in von Neumann algebras. (English summary) **2001k:81105**

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Kholevo, A. S. Generalized imprimitivity systems and canonical conjugateness in quantum mechanics. (English summary) **2001f:81084**

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Shalom, Yehuda Explicit Kazhdan constants for representations of semisimple and arithmetic groups. (English and French summaries) **2001i:22019**

Williams, Dana P. *see* **an Huef, Astrid et al., 2001b:46107**

22D35 Duality theorems

Items with secondary classifications in 22D35

Gamkrelidze, Revaz Valerianovich The mathematical works of L. S. Pontryagin. (Russian) **2001a:01051**

Hofmann, Karl Heinrich (*with* Martin, John R.) G-spaces and fixed point sets. (English summary) **2001k:22008**

Martin, John R. *see* **Hofmann, Karl Heinrich, 2001k:22008**

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22D40 Ergodic theory on groups [see also 28Dxx]

Dani, S. G. On automorphism groups acting ergodically on connected locally compact groups. (English summary) **2001m:22013**

Fidaleo, Francesco Continuity of Borel actions of Polish groups on standard measure algebras. (English summary) **2001f:22017**

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Lin, Michael (*with* Tempel'man, A. A.) Averaging sequences and modulated ergodic theorems for weakly almost periodic group representations. (English summary) **2001f:22018**

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Đoković, Dragomir Ž. On minimal parabolic subgroups of exponential Lie groups. (English summary) **2001b:22009**
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22E20 General properties and structure of other Lie groups

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Fellouris, Anargyros G. On the parametrization of unitary and superunitary supergroups. (English summary) **2001a:22009**
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Dekimpe, Karel Semi-simple splittings for solvable Lie groups and polynomial structures. (English summary) **2001h:22009**
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22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)

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22E41 Continuous cohomology [see also 57R32, 57Txx, 58H10]

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22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [see also 17B10]

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Gross, Benedict H. (*with* Wallach, N. R.) Restriction of small discrete series representations to symmetric subgroups. (English summary) **2001f:22042**
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22E50 Representations of Lie and linear algebraic groups over local fields [see also 20G05]

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Barbasch, Dan (*with* Moy, Allen) A new proof of the Howe conjecture. **2001f:22053**
Baruch, Ehud Moshe (*with* Rallis, Stephen) A uniqueness theorem of Fourier Jacobi models for representations of Sp(4). (English summary) **2001j:22021**
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Bushnell, Colin J. (*with* Henniart, Guy) Calculs de facteurs epsilon de paires sur un corps local. II. (English summary) [Computing the epsilon factors of pairs in $GL(n)$ over a local field. II] **2001k:22036**
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22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [see also 20G05]

(Breen, Lawrence) *see* **Labesse, Jean-Pierre, 2001k:22040**
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— (*with* Jiang, Dihua) A Siegel-Weil identity for G_2 and poles of L-functions. (English summary) **2001j:11028**
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— (*with* Rallis, Stephen) Howe duality and the trace formula. (English summary) **2001h:11069**
— (*with* Rallis, Stephen) Cubic base change for GL(2). (English summary) **2001d:11056**
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Watanabe, Takao A comparison of automorphic L-functions in a theta series lifting for unitary groups. (English summary) **2001j:11031**
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22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx.}

Boyarskiĭ, A. M. (*with* Skrypnik, T. V.) Singular orbits of a coadjoint representation of Euclidean groups. (Russian) **2001m:22037**
Donin, J. (*with* Gurevich, Dmitriĭ I.; Shnider, Steve) Double quantization on some orbits in the coadjoint representations of simple Lie groups. (English summary) **2001c:22021**
Felgin, B. L. (*with* Fuchs, Dmitry) Cohomologies of Lie groups and Lie algebras [MR 90k:22014]. (*see* **2001a:22001**)
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El Houari, Mohammed Tensor invariants associated with good Lie superalgebras. Towards a new classification of simple Lie superalgebras. (English summary) **2001c:17012**
El Hussein, Kahar An extension of the Fourier coefficients of some invariant operators on the Cartan motion group. (English summary) **2001d:22006**
Engø, Kenth On the construction of geometric integrators in the RKMK class. (English summary) **2001c:65081**
Fedorchuk, Ivan M. *see* **Fedorchuk, V. M. et al., 2001f:81069**
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Guieu, Laurent Stabilisateurs cycliques pour la représentation coadjointe du groupe des diffeomorphismes du cercle. (French summary) [Cyclic stabilizers for the coadjoint representation of the group of diffeomorphisms of the circle] **2001i:22026**
Iserles, Arieh (*with* Zanna, Antonella) On the dimension of certain graded Lie algebras arising in geometric integration of differential equations. (English summary) **2001f:34022**
Kirillov, Aleksandr Aleksandrovich Family algebras. (English summary) **2001f:17063**
Kisil, Vladimir V. Relative convolutions. I. Properties and applications. (English summary) **2001h:22012**
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Ton-That, Tuong Poincaré-Birkhoff-Witt theorems and generalized Casimir invariants for some infinite-dimensional Lie groups. I. (English summary) **2001f:22064**
Tóth, Árpád (*with* Varolin, Dror) Holomorphic diffeomorphisms of complex semisimple Lie groups. **2001e:32036**
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22E65 Infinite-dimensional Lie groups and their Lie algebras [see also 17B65, 58B25, 58H05]

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Grabowski, Janusz Poisson Lie groups in infinite dimensions. (English summary) **2001f:22061**
Guieu, Laurent Stabilisateurs cycliques pour la représentation coadjointe du groupe des diffeomorphismes du cercle. (French summary) [Cyclic stabilizers for the coadjoint representation of the group of diffeomorphisms of the circle] **2001i:22026**
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Martini, Claude Harmoniques sphériques et représentations irréductibles de $O(\infty)$. (English and French summaries) [Spherical harmonics and irreducible representations of $O(\infty)$] **2001a:22015**
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Shimomura, Hiroaki 1-cocycles on the group of diffeomorphisms. II. **2001b:22018**
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Neretin, Yurii A. On the separation of spectra in the analysis of Berezin kernels. (Russian. Russian summary) **2001m:32012**
Olver, Peter J. Moving frames. (*see* **2001f:58004**)
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Tezuka, Michishige *see* **Kuribayashi, Katsuhiko et al., (2001d:20048)**
Vaisman, Izu Nambu-Lie groups. (English summary) **2001f:53170**
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Winternitz, Pavel *see* **Grundland, A. M. et al., 2001k:35249** *and* **Dorodnitsyn, Vladimir et al., 2001m:39002**

22Fxx Noncompact transformation groups

22F05 General theory of group and pseudogroup actions {For topological properties of spaces with an action, see 57S20.}

Biś, Andrzej Ends and algebraic directions of pseudogroups. (English summary) **2001b:22019**

Mozhei, N. P. Locally transitive affine actions in low dimensions. (Russian. English and Russian summaries) **2001i:22028**

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Montaldi, James (*with* Roberts, Richard Mark) Note on semisymplectic actions of Lie groups. (English and French summaries) **2001f:53160**

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Ramsay, Arlan B. Polish groupoids. **2001e:22003**

Roberts, Richard Mark *see* **Montaldi, James, 2001f:53160**

Török, Andrei *see* **Katok, Anatole B. et al., 2001f:37034**

22F10 Measurable group actions [see also 22D40, 28Dxx, 37Axx]

Furman, Alex Gromov's measure equivalence and rigidity of higher rank lattices. (English summary) **2001a:22017**

— Orbit equivalence rigidity. (English summary) **2001a:22018**

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Bezuglyĭ, S. I. *H*-cocycles and ergodic actions of group extensions. (Ukrainian summary) **2001c:37005**

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Fidaleo, Francesco Continuity of Borel actions of Polish groups on standard measure algebras. (English summary) **2001f:22017**

Golodets, Valentin Ya. (*with* Sinel'shchikov, S. D.) On the conjugacy and isomorphism problems for stabilizers of Lie group actions. (English summary) **2001c:22006**

Nevo, Amos (*with* Zimmer, Robert J.) Rigidity of Furstenberg entropy for semisimple Lie group actions. (English and French summaries) **2001k:22009**

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22F30 Homogeneous spaces {For general actions on manifolds or preserving geometrical structures, see 57M60, 57Sxx; for discrete subgroups of Lie groups see especially 22E40.}

Adams, Scot Locally free actions on Lorentz manifolds. (English summary) **2001h:22024**

Minami, Haruo Quotients of exceptional Lie groups as framed boundaries. **2001c:22023**

Weiss, Barak Unique ergodicity on compact homogeneous spaces. (English summary) **2001k:22041**

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Ajayi, Deborah O. *see* **Ilori, Samuel A., 2001h:57030**

Baues, Oliver Varieties of discontinuous groups. **2001i:58013**

Bazaĭkin, Ya. V. Double quotients of Lie groups with an integrable geodesic flow. (Russian. Russian summary) **2001f:37082**

Beklaryan, L. A. On a criterion for the topological conjugacy of a quasisymmetric group to the group of affine transformations of **R**. (Russian. Russian summary) **2001f:37053**

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Cassinelli, Gianni (*with* De Vito, Ernesto; Levrero, Alberto) Square-integrable imprimitivity systems. (English summary) **2001h:22005**

Cenkl, Bohumil (*with* Porter, Richard D.) Nilmanifolds and associated Lie algebras over the integers. (English summary) **2001a:22008**

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Conze, Jean-Pierre (*with* Guivarc'h, Yves) Limit sets of groups of linear transformations. (English summary) **2001i:37019**

Dal'Bo, Françoise (*with* Kim, Inkang) A criterion of conjugacy for Zariski dense subgroups. (English and French summaries) **2001d:22007**

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Durán Díaz, R. (*with* Gadea, P. M.; Oubiña, J. A.) The oscillator group as a homogeneous spacetime. (English summary) **2001e:22006**

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Farb, Benson (*with* Shalen, Peter B.) Lattice actions, 3-manifolds and homology. **2001b:57041**

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Gorbatsevich, V. V. On the triviality of a natural fibration of some compact homogeneous spaces. (Russian) **2001g:55011**

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Ilori, Samuel A. (*with* Ajayi, Deborah O.) The height of the first Stiefel-Whitney class of the real flag manifolds. **2001h:57030**

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Kim, Inkang *see* **Dal'Bo, Françoise, 2001d:22007**

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Shah, Nimish A. Invariant measures and orbit closures on homogeneous spaces for actions of subgroups generated by unipotent elements. (English summary) **2001a:22012**

— (*with* Weiss, Barak) On actions of epimorphic subgroups on homogeneous spaces. (English summary) **2001g:22011**

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Skriganov, M. M. Ergodic theory on $SL(n)$, Diophantine approximations and anomalies in the lattice point problem. **2001a:11170**

— (*with* Starkov, A. N.) On logarithmically small errors in the lattice point problem. (English summary) **2001j:11095**

Smulders, Camiel Marie Paul Antoon ★ Reduced heat kernels on homogeneous spaces. (English and Dutch summaries) **2001i:58054**

Spatzier, Ralf J. *see* **Goetze, Edward R., 2001c:37029**

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Zeghib, Abdelghani Isometry groups and geodesic foliations of Lorentz manifolds. I. Foundations of Lorentz dynamics. (English summary) **2001g:53059**

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22F50 Groups as automorphisms of other structures

Rebelo, Julio C. On nilpotent groups of real analytic diffeomorphisms of the torus. (English and French summaries) **2001m:22041**

26–XX Real functions [see also 54C30]

26–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 26–00

Andreescu, Titu (*with* Gelca, Răzvan) ★ Mathematical Olympiad challenges. (English summary) **2001a:00002**
Gelca, Răzvan *see* **Andreescu, Titu, 2001a:00002**
Lyashko, I. I. *see* **Virchenko, Nina A., 2001j:00010**
(Saul, Mark) *see* **Andreescu, Titu, 2001a:00002**
Virchenko, Nina A. (*with* Lyashko, I. I.) ★ Graphs of elementary and special functions. **2001j:00010**

Items listed otherwise than by author

Handbook:
Graphs of elementary and special functions *see* **Virchenko, Nina A., 2001j:00010**

26–01 Instructional exposition (textbooks, tutorial papers, etc.)

Abbott, Stephen ★ Understanding analysis. (English summary) **2001m:26001**
Aberth, Oliver ★ Computable calculus. (English summary)
Bagby, Richard J. ★ Introductory analysis. (English summary)
Burn, R. P. ★ Numbers and functions. (English summary)
Carothers, N. L. ★ Real analysis. (English summary)
Dineen, Seán ★ Functions of two variables. (English summary)
Hofmann, Karl Heinrich ★ Analysis I. (English and German summaries) **2001f:26001**
Howie, John M. ★ Real analysis. (English summary)
Keller, A. V. *see* **Sviridyuk, G. A.**
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Petkov, Pet'o Petrov ★ Увод в теория на интегрирането. (Bulgarian. English and Bulgarian summaries) [An introduction to integration theory] **2001i:26001**
Sviridyuk, G. A. (*with* Keller, A. V.) ★ Математический анализ. Часть III. (Russian. Russian summary) [Mathematical analysis. Part III]
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Wiener, Joseph (*with* Paredes, Miguel) The power integral and the geometric series.

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Alberti, N. (*with* Andriani, M. F.; Bedulli, M.; et al.) On the difficulties of learning the concept of limit. (Italian. English summary) (*see* **2001j:00033**)
Andriani, M. F. *see* **Alberti, N. et al., (2001j:00033)**
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Bosch-Giral, Carlos (*with* Kučera, Jan) The gauge integral or the Riemann integral: which should one choose? (Spanish) **2001m:26017**
Dshalalow, Jewgeni H. ★ Real analysis. (English summary) **2001h:28001**
Fulling, Stephen A. ★ Linearity and the mathematics of several variables.
Jänich, Klaus ★ Vector analysis. (English summary) **2001m:58001**
Kamynin, L. I. ★ Курс математического анализа. Том II. (Russian. Russian summary) [A course of mathematical analysis. Vol. II] **2001g:00002**
(Kay, Leslie) *see* **Jänich, Klaus, 2001m:58001**
Kučera, Jan *see* **Bosch-Giral, Carlos, 2001m:26017**
Lieb, Elliott H. (*with* Loss, Michael) ★ Analysis. **2001i:00001**
Loss, Michael *see* **Lieb, Elliott H., 2001i:00001**
Morgan, Frank ★ Geometric measure theory. (English summary) **2001j:49001**
Pfeffer, Washek F. ★ Derivation and integration. (English summary) **2001m:26018**
(Sinyakov, Michael N.) *see* **Fulling, Stephen A.**
Sonar, Thomas ★ Einführung in die Analysis. (German. German summary) [Introduction to analysis]
Storch, Uwe (*with* Wiebe, Hartmut) ★ Lehrbuch der Mathematik. Band 4. (German. German summary) [Textbook of mathematics. Vol. 4] **2001m:00001**
(Tishchenko, S. V.) *see* **Fulling, Stephen A.**
Wiebe, Hartmut *see* **Storch, Uwe, 2001m:00001**
Yeh, James J. ★ Lectures on real analysis. (English summary) **2001i:28001**

26–02 Research exposition (monographs, survey articles)

Kharazishvili, A. B. ★ Strange functions in real analysis. (English summary) **2001h:26001**

26–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 26–03

(Bolzano, Bernard) *see* **Felscher, Walter, 2001m:01030**
(Cauchy, A. L.) *see* **Felscher, Walter, 2001m:01030**
Demidov, S. S. "But this idea of yours has universal significance and extraordinary value" (from the prehistory of nonstandard analysis). (Russian. English summary)
— *see also* **Luzin, Nikolaĭ Nikolaevich, 2001c:01023**
Felscher, Walter Bolzano, Cauchy, epsilon, delta. **2001m:01030**
(Grattan-Guinness, Ivor) *see* **From the calculus to set theory, 2001i:01004**
Hawkins, Thomas The origins of modern theories of integration. (*see* **2001f:01004**)
Laugwitz, Detlef Comments on the paper: "Two letters by N. N. Luzin to M. Ya. Vygodskiĭ" [Amer. Math. Monthly **107** (2000), no. 1, 64–82; MR 2001c:01023]. **2001c:01024**
Luzin, Nikolaĭ Nikolaevich Two letters by N. N. Łuzin to M. Ya. Vygodskiĭ. **2001c:01023**
— *see also* **Laugwitz, Detlef, 2001c:01024**
(Shenitzer, Abe) *see* **Luzin, Nikolaĭ Nikolaevich, 2001c:01023**
Spalt, Detlef D. ...doch es gibt ihn nicht: Der Begriff der reellen Funktion im 19. Jahrhundert. [...but it does not exist: the concept of real function in the 19th century] **2001g:01027**
Thiele, Rüdiger Frühe Variationsrechnung und Funktionsbegriff. [Early calculus of variations and function concept] **2001m:01004**
(Vygodskiĭ, M. Ya.) *see* **Luzin, Nikolaĭ Nikolaevich, 2001c:01023; Laugwitz, Detlef, 2001c:01024** *and* **Demidov, S. S.**

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Anniversary:
Birth of Vygodskiĭ, M. Ya. *see* **Demidov, S. S.**
Biography:
Luzin, Nikolaĭ Nikolaevich *see* **Laugwitz, Detlef, 2001c:01024**
Correspondence:
Luzin, Nikolaĭ Nikolaevich–Vygodskiĭ, M. Ya. *see* **Luzin, Nikolaĭ Nikolaevich, 2001c:01023**
From the calculus to set theory ★ From the calculus to set theory, 1630–1910. **2001i:01004**

26–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 26–04

Schröder, Matthias Online computations of differentiable functions. (English summary) **2001b:68059**

26–06 Proceedings, conferences, collections, etc.

Items listed otherwise than by author

Łódź ★ {Summer Symposium in Real Analysis XXIII}. **2001a:26001**
Symposium:
Real Analysis ★ {Summer Symposium in Real Analysis XXIII}. **2001a:26001**

26Axx Functions of one variable

26A03 Foundations: limits and generalizations, elementary topology of the line

Ghosh, Diptabibhu *see* **Lahiri, B. K., 2001d:26001**
Khan, Liaqat Ali[1] (*with* Thaheem, A. B.) On the equivalence of the Heine-Borel and the Bolzano-Weierstrass theorems. (English summary)
Lahiri, B. K. (*with* Ghosh, Diptabibhu) Some properties of Ω-density of sets. (English summary) **2001d:26001**
Lynch, Mark Limits, continuity, and bow ties: rigour without ϵ or δ. (English summary)
Nievergelt, Yves Applications of sequences and limits in calculus.
Prokaj, Vilmos Monotone and discrete limits of continuous functions. (English summary) **2001d:26002**
Svetic, R. E. (*with* Volkmer, Hans) The minimal Denjoy index of a symmetric perfect set. (English summary) **2001c:26001**
Thaheem, A. B. *see* **Khan, Liaqat Ali**[1]
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Wagner-Bojakowska, Elżbieta (*with* Wilczyński, Władysław) Comparison of ψ-density topologies. (English summary) **2001f:26002**
Wesołowska, Jolanta On sets of convergence points of sequences of some real functions. (English summary) **2001d:26003**
Wilczyński, Władysław *see* **Wagner-Bojakowska, Elżbieta, 2001f:26002**
Xiao, Zhi Jing New interpretation of δ-ϵ calculus. (English summary)

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(Bolzano, Bernard) *see* **Felscher, Walter, 2001m:01030**
Cater, Frank S. On order topologies and the real line. (English summary) **2001f:54034**
(Cauchy, A. L.) *see* **Felscher, Walter, 2001m:01030**
Charatonik, Janusz J. (*with* Omiljanowski, Krzysztof; Villani, Alfonso) Interiority of real functions. (English summary) **2001g:54016**
Demirci, Kamil A-statistical core of a sequence. (English summary) **2001h:40001**
Felscher, Walter Bolzano, Cauchy, epsilon, delta. **2001m:01030**
Florinskiĭ, A. A. *see* **Semenova, O. L., 2001i:54028**
Marconi, Umberto On the Hausdorff convergence of functions of one real variable. (English summary) **2001k:54025**
Omiljanowski, Krzysztof *see* **Charatonik, Janusz J. et al., 2001g:54016**
Pták, Vlastimil Combinatorial methods in analysis. (English summary) **2001k:05006**
Semenova, O. L. (*with* Florinskii, A. A.) Ideals of porous sets in the real line and in metrizable topological spaces. (English summary) **2001i:54028**
Šteprāns, Juris Unions of rectifiable curves in Euclidean space and the covering number of the meagre ideal. (English summary) **2001j:03092**
Villani, Alfonso *see* **Charatonik, Janusz J. et al., 2001g:54016**

26A06 One-variable calculus

Ageel, Mohammad I. Note on using probability to evaluate $\int_0^1 y_2^p(1-y_2)^q dy_2$.
Aledo, Juan A. (*with* Cortés López, Juan Carlos) An application of an Archimedean idea. (Spanish. English summary) **2001a:26002**
Andenæs, Per Roar An alternative evaluation of the Fresnel integrals. (Norwegian. English summary)
Barbanel, Julius A kinematic approach to the fundamental theorem of calculus.
Bradley, David M. Using integral transforms to estimate higher order derivatives. **2001m:26002**

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Cortés López, Juan Carlos *see* **Aledo, Juan A., 2001a:26002**
Feeman, Timothy G. (*with* Marrero, Osvaldo) Sequences of chords and of parabolic segments enclosing proportional areas.
Folland, Gerald B. How to integrate a polynomial over a sphere.
Hsu, Leetsch Charles *see* **Corcino, Roberto B.**
Kaptanoğlu, H. Turgay In praise of $y = x^{\alpha}\sin(\frac{1}{x})$. **2001m:26003**
Li, Chun Cheng (*with* Sui, Zhen Lin; Wang, Ji Suo) p,q-Taylor formula and its remainder for functions of many variables. (Chinese. English and Chinese summaries)
— *see also* **Sui, Zhen Lin et al.**
Marrero, Osvaldo *see* **Feeman, Timothy G.**
Pinkham, R. S. Simpson's rule with constant weights.
Sui, Zhen Lin (*with* Li, Chun Cheng; Wang, Ji Suo) p,q-Taylor formula and its remainder. (Chinese. English and Chinese summaries)
— *see also* **Li, Chun Cheng et al.**
Szucs, Joseph M. The size of the set of zeros of a Wronskian. (English summary) **2001m:26004**
Talvila, Erik Some divergent trigonometric integrals.
Viskov, O. V. The Darboux identity and its analogues. (Russian. Russian summary) **2001k:26001**
Wang, Ji Suo *see* **Li, Chun Cheng et al.** *and* **Sui, Zhen Lin et al.**
Wiener, Joseph Differentiation with respect to a parameter.
Xia, Dai Yue *see* **Yang, Han Shen**
Xiang, Chang He L'Hospital law for complex-valued functions. (Chinese. English and Chinese summaries) **2001e:26001**
Yang, Han Shen (*with* Xia, Dai Yue) A perfect proof for harmonic series and p-series. (Chinese. English and Chinese summaries)

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Trench, William F. Conditional convergence of infinite products. **2001c:40003**

26A09 Elementary functions

Laczkovich, Miklós (*with* Ruzsa, Imre Z.) Elementary and integral-elementary functions. (English summary) **2001c:26002**
Ruzsa, Imre Z. *see* **Laczkovich, Miklós, 2001c:26002**
Stenlund, Mikko On the tangent lines of a parabola.
Zhang, Yong Ming The relationship between piecewise defined functions and elementary functions. (Chinese. English and Chinese summaries)

Items with secondary classifications in 26A09

Kaptanoğlu, H. Turgay In praise of $y = x^{\alpha}\sin(\frac{1}{x})$. **2001m:26003**
Rothe, F. Oscillations of the Taylor polynomials for the sin function. (English summary) **2001m:26034**

26A12 Rate of growth of functions, orders of infinity, slowly varying functions [see also 26A48]

Đurčić, Dragan (*with* Torgašev, Aleksandar) Strong asymptotic equivalence and inversion of functions in the class K_r. (English summary) **2001m:26005**
Janković, Slobodanka (*with* Ostrogorski, Tatjana) Differences of slowly varying functions. (English summary) **2001f:26003**
Kotlyar, V. Yu. On the relative rate of change of a function. (Russian. English and Ukrainian summaries) **2001a:26003**
Ostrogorski, Tatjana Regularly bounded functions and Hardy's inequality. **2001f:26004**
— *see also* **Janković, Slobodanka, 2001f:26003**
Tanikawa, Masao A construction of a rapidly decreasing function having designated moments. (English summary) **2001e:26002**
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Bingham, Nicholas H. (*with* Inoue, Akihiko) Extension of the Drasin-Shea-Jordan theorem. (English summary) **2001d:40008**
Hupfer, Thomas (*with* Leschke, Hajo; Warzel, Simone) The multiformity of Lifshits tails caused by random Landau Hamiltonians with repulsive impurity potentials of different decay at infinity. (English summary) **2001j:82055**
Inoue, Akihiko *see* **Bingham, Nicholas H., 2001d:40008**
Laczkovich, Miklós (*with* Ruzsa, Imre Z.) Elementary and integral-elementary functions. (English summary) **2001c:26002**
Leschke, Hajo *see* **Hupfer, Thomas et al., 2001j:82055**
Marić, Vojislav Regularity, nonoscillation and asymptotic behaviour of solutions of second order linear equations. (English summary) **2001i:34090**
Popov, A. Yu. A sharp estimate for the condensation index. (Russian. Russian summary) **2001h:30023**
Ruzsa, Imre Z. *see* **Laczkovich, Miklós, 2001c:26002**
Warzel, Simone *see* **Hupfer, Thomas et al., 2001j:82055**

26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27.}

Cater, Frank S. Variations on a theorem on rings of continuous functions. (English summary) **2001c:26003**
Ciesielski, Krzysztof² (*with* Rosen, Harvey) Two examples concerning extendable and almost continuous functions. (English summary) **2001h:26002**
— (*with* Rosłanowski, Andrzej) Two examples concerning almost continuous functions. (English summary) **2001b:26001**
— (*with* Jastrzębski, Jan) Darboux-like functions within the classes of Baire one, Baire two, and additive functions. (English summary) **2001g:26001**
Darji, Udayan B. Two general extension theorems. (English summary) **2001b:26002**
Grande, Zbigniew On a.c. limits of decreasing sequences of continuous or right continuous functions. (English summary) **2001e:26003**
— On discrete limits of sequences of functions satisfying some special approximate quasicontinuity conditions. (English summary)
— On a.c. limits and monotone limits of sequences of jump functions. (English summary) **2001h:26003**
Jałocha, J. Quotients of quasi-continuous functions. (English summary) **2001k:26002**
Jastrzębski, Jan *see* **Ciesielski, Krzysztof², 2001g:26001**
Jordan, Francis Quasicontinuous functions with a little symmetry are extendable. (English summary) **2001e:26004**
— A new cardinal invariant related to adding real functions. (English summary) **2001g:26002**
Kostyrko, Pavel A typical property of some symmetric spaces. (English summary) **2001e:26005**
Marciniak, Mariola Finitely continuous, Darboux functions. (English summary) **2001m:26006**
Muthuvel, Kandasamy Composition of functions. (English summary) **2001d:26004**
Pawlak, Ryszard Jerzy On some class of functions intermediate between the class B_1^* and the family of continuous functions. (English summary) **2001h:26004**
Prus-Wiśniowski, Franciszek (*with* Szkibiel, Grzegorz) A note on SAC property. (English summary) **2001d:26005**
Rosen, Harvey *see* **Ciesielski, Krzysztof², 2001h:26002**
Rosłanowski, Andrzej *see* **Ciesielski, Krzysztof², 2001b:26001**
Szkibiel, Grzegorz *see* **Prus-Wiśniowski, Franciszek, 2001d:26005**
Szuca, Piotr Every almost continuous function is polygonally almost continuous. (English summary) **2001d:26006**
Szyszkowski, Marcin Symmetrically continuous functions on various subsets of the real line. (English summary) **2001i:26002**
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Vallin, Robert W. Continuity and differentiability aspects of metric preserving functions. (English summary) **2001g:26003**
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Ghosh, Diptabibhu *see* **Lahiri, B. K., 2001d:26001**
Goginava, U. On the divergence of trigonometric Fourier series of the class $H^{\omega} \cap \mathrm{BV}(p(n)\uparrow\infty)$. (English and Georgian summaries) **2001e:42006**
Grande, Zbigniew (*with* Stronska, Ewa) On some properties connected with continuity and measurability. (English summary) **2001f:54012**
Jaffard, Stéphane On lacunary wavelet series. (English summary) **2001f:60040**
Lahiri, B. K. (*with* Ghosh, Diptabibhu) Some properties of Ω-density of sets. (English summary) **2001d:26001**
Matveev, E. R. About my article "The modulus of continuity for the k-monotone functions" [East J. Approx. 3 (1997), no. 3, 303–315; MR 99j:41014]. **2001a:41009**
Miculescu, Radu A generalization of the notion of continuous function. (English summary)
Prokaj, Vilmos Monotone and discrete limits of continuous functions. (English summary) **2001d:26002**
Pycia, Marek A direct proof of the s-Hölder continuity of Breckner s-convex functions. (English summary) **2001j:26004**
Schröder, Matthias Online computations of differentiable functions. (English summary) **2001b:68059**
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Vinogradov, O. L. On some inequalities for the integrated module of continuity. (English summary) [On some inequalities for the integrated modulus of continuity]

26A16 Lipschitz (Hölder) classes

Benoist, Joël The size of the Dini subdifferential. (English summary) **2001e:26006**
Buczolich, Zoltán Lipeomorphisms, sets of bounded variation and integrals. (English summary) **2001m:26007**
Bustamante González, Jorge (*with* Jiménez Pozo, Miguel A.) Fourier series and convergence in Lipschitz norm. (English summary) (*see* **2001d:00037**)
Jaffard, Stéphane Construction of functions with prescribed Hölder and chirp exponents. (English summary) **2001m:26008**
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Dyakonov, Konstantin M. Approximate identities and geometric means of smooth positive functions. **2001h:31005**
Itoh, Jin-ichi (*with* Tanaka, Minoru³) The Lipschitz continuity of the distance function to the cut locus. (English summary) **2001b:53029**
Kaptanoğlu, H. Turgay In praise of $y = x^{\alpha}\sin(\frac{1}{x})$. **2001m:26003**
Lal, Shyam On the degree of approximation of conjugate of a function belonging to weighted $W(L^p, \xi(t))$ class by matrix summability means of conjugate series of a Fourier series. (English summary) **2001k:42014**
La Torre, Davide (*with* Rocca, Matteo) $C^{k,1}$ functions and Riemann derivatives. (English summary) **2001e:26008**

Leindler, László Power-monotone sequences and Fourier series with positive coefficients. (English summary) **2001d:42004**
Merentes, Nelson (*with* Rivas, Sergio) On the composition operator between $RV_p[a,b]$ and $BV[a,b]$. (English summary) **2001b:26014**
Miculescu, Radu Les fonctions lipschitziennes homotopiques sont Lipschitz homotopiques. (French summary) [Homotopic Lipschitzian functions are Lipschitz homotopic] **2001j:54034**
Pycia, Marek A direct proof of the s-Hölder continuity of Breckner s-convex functions. (English summary) **2001j:26004**
Rivas, Sergio *see* **Merentes, Nelson, 2001b:26014**
Rocca, Matteo *see* **La Torre, Davide, 2001e:26008**
Tabor, Jacek (*with* Tabor, Józef) Local stability of the Cauchy and Jensen equations in function spaces. (English summary) **2001f:39032**
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Zhong, Shou Guo A further generalization for a lemma that judges the Hölder condition. (Chinese. English and Chinese summaries) **2001j:45006**

26A18 Iteration [see also 37Bxx, 37Cxx, 37Exx, 39B12, 47H10, 54H25]

Ambroladze, Amiran (*with* Markström, Klas; Wallin, Hans) Stability versus hyperbolicity in dynamical and iterated function systems. (English summary) **2001h:26005**
Markström, Klas *see* **Ambroladze, Amiran et al., 2001h:26005**
Mercer, Peter R. Type, fixed point iteration, and mean value theorems. (English summary)
Steele, T. H. Iterative stability in the class of continuous functions. (English summary) **2001d:26008**
— Continuity structure of $f \mapsto \bigcup_{x\in I} \omega(x,f)$ and $f \mapsto \{\omega(x,f)\colon x \in I\}$. (English summary) **2001e:26007**
— The essential point set of a continuous function. (English summary) **2001k:26003**
Steinsaltz, David Locally contractive iterated function systems. (English summary) **2001c:26004**
Wallin, Hans *see* **Ambroladze, Amiran et al., 2001h:26005**

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Azoff, Edward A. (*with* Ionascu, Eugen J.) Wandering sets for a class of Borel isomorphisms of [0, 1). (English summary) **2001j:37070**
Basnyat, Kanchan *see* **Sznajder, Roman, 2001h:37015**
Beklaryan, L. A. On a criterion for the topological conjugacy of a quasisymmetric group to the group of affine transformations of **R**. (Russian. Russian summary) **2001f:37053**
Cánovas Peña, José Salvador On topological sequence entropy of piecewise monotonic mappings. (English summary) **2001g:37016**
Ger, Roman Iteration groups of functions satisfying a generalized additivity equation. (English summary) **2001f:39020**
Guo, Bai Ni (*with* Qi, Feng) Generalized weighted mean values with two parameters and their monotonicity. (Chinese. English and Chinese summaries)
Ionascu, Eugen J. *see* **Azoff, Edward A., 2001j:37070**
Komisarski, Andrzej A non-ergodic phenomenon for some random dynamical system. (English summary) **2001h:37110**
Kopf, C. Symbol sequences and entropy for piecewise monotone transformations with discontinuities. (English summary) **2001a:37044**
Kuroda, Tadashi Chaotic property of turbulences. (English summary) **2001h:37076**
Laugwitz, Detlef (*with* Schönefuss, Lutz) Convergence of continued operations. (English summary) **2001d:39024**
Málek, Michal Distributional chaos for continuous mappings of the circle. (English summary) **2001a:37049**
Mimna, Roy A. Typical continuous functions are not chaotic in the sense of Devaney. (English summary) **2001e:37027**
Qi, Feng *see* **Guo, Bai Ni**
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Sharkovs'kiĭ, Aleksandr Iteration of continuous functions and dynamics of solutions for some boundary value problems. (English summary) **2001a:37072**
Steele, T. H. The set of continuous functions with zero topological entropy. (English summary) **2001d:37044**
Sznajder, Roman (*with* Basnyat, Kanchan) Dynamics of a certain sequence of powers. **2001h:37015**
Yu, Zu-Guo (*with* Ren, Fu-Yao) Noise and chaotic disturbance on self-similar sets. (English summary) **2001k:28013**
Zdun, Marek Cezary On iterative roots of homeomorphisms of the circle. (English summary) **2001e:37049**

26A21 Classification of real functions; Baire classification of sets and functions [see also 03E15, 28A05, 54C50]

Aversa, V. (*with* Tartaglia, Maria) Extension of functions of first Baire class. (Italian. English summary) **2001i:26003**
Chaatit, Fouad (*with* Rosenthal, Haskell P.) On differences of semi-continuous functions. (English summary) **2001k:26004**
Evans, Michael Jon (*with* Humke, P. D.; O'Malley, R. J.) Universally polygonally approximable functions. (English summary) **2001b:26003**
Foran, James The length of the graph of a one to one function from [0, 1] to [0, 1]. (English summary) **2001d:26009**
Humke, P. D. *see* **Evans, Michael Jon et al., 2001b:26003**
Ignat, Radu A generalization of convex and midconvex functions. (English summary) (*see* **2001k:00021a**)
Jordan, Francis Covering Baire 1 functions with Darboux functions and the cofinality of the ideal of meager sets. (English summary) **2001h:26006**
Kotlicka, Elżbieta The double difference property for some classes of functions. (English summary) **2001f:26005**
Kucner, Joanna *see* **Pawlak, Ryszard Jerzy et al., 2001d:26010**
Lee, Peng Yee (*with* Tang, Wee-Kee; Zhao, Dong-sheng) An equivalent definition of functions of the first Baire class. (English summary) **2001m:26009**
Mikhaĭlyuk, Vladimir Vasil'evich (*with* Sobchuk, O. V.) Functions with a diagonal of finite Baire class. (Ukrainian. English and Russian summaries) **2001m:26010**
O'Malley, R. J. *see* **Evans, Michael Jon et al., 2001b:26003**
Pawlak, Ryszard Jerzy (*with* Kucner, Joanna; Świątek, Bożena) On small subsets of the space of Darboux functions. (English summary) **2001d:26010**
Rosenthal, Haskell P. *see* **Chaatit, Fouad, 2001k:26004**
Rychlewicz, Andrzej On Darboux functions $f\colon \mathbf{R}^n \to \mathbf{R}^m$ with finite variation. (English summary) **2001k:26005**
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Ciesielski, Krzysztof[2] (*with* Jastrzębski, Jan) Darboux-like functions within the classes of Baire one, Baire two, and additive functions. (English summary) **2001g:26001**
Elalaoui-Talibi, Hussain *see* **Brown, Jack B., 2001i:28002**
Grande, Zbigniew On a.c. limits of decreasing sequences of continuous or right continuous functions. (English summary) **2001e:26003**
— On a.c. limits and monotone limits of sequences of jump functions. (English summary) **2001h:26003**
Holický, Petr (*with* Zelený, Miroslav) A converse of the Arsenin-Kunugui theorem on Borel sets with σ-compact sections. (English summary) **2001j:54045**
Jastrzębski, Jan *see* **Ciesielski, Krzysztof[2], 2001g:26001**
Kanoveĭ, V. G. (*with* Reeken, Michael) On Baire measurable homomorphisms of quotients of the additive group of the reals. (English summary) **2001f:03093**
Kiriakouli, P. Ch. Classifications and characterizations of Baire-1 functions. (English summary) **2001d:54013**
— On averaging null sequences of real-valued functions. (English summary) **2001i:46014**
Komjáth, Péter Limits of transfinite sequences of Baire-2 functions. (English summary) **2001g:03090**
Lecomte, Dominique Complexité des boréliens à coupes dénombrables. (French summary) [Complexity of Borel sets with countable sections] **2001k:54061**
Mac Lane, Saunders Contrary statements about mathematics. Comment: "Strong statements of analysis" [Bull. London Math. Soc. **32** (2000), no. 5, 513–526; MR 2001h:03102a] by A. R. D. Mathias. **2001h:03102b**
Mathias, A. R. D. Strong statements of analysis. (English summary) **2001h:03102a**
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Pawlak, Ryszard Jerzy On some class of functions intermediate between the class B_1^* and the family of continuous functions. (English summary) **2001h:26004**
Reeken, Michael *see* **Kanoveĭ, V. G., 2001f:03093**
Tomaszewska, Aneta On relations among various classes of $\mathcal{F}$ a.e. continuous Darboux functions. (English summary) **2001d:26007**
Wagner, Marcus Transportation flow problems with Radon measure variables. (English summary) **2001h:49052**
Wagner-Bojakowska, Elżbieta (*with* Wilczyński, Władysław) Cauchy condition for the convergence in category. **2001a:28004**
Wesołowska, Jolanta On sets of convergence points of sequences of some real functions. (English summary) **2001d:26003**
Wilczyński, Władysław *see* **Wagner-Bojakowska, Elżbieta, 2001a:28004**
Zelený, Miroslav *see* **Holický, Petr, 2001j:54045**

26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [see also 28A15]

Aldaz, J. M. On the derivability of Lipschitz functions. (English summary) **2001m:26011**
Apostol, Tom M. Calculating higher derivatives of inverses. **2001h:26007**
Cater, Frank S. On the Dini derivates of a particular function. (English summary) **2001d:26011**
Chen, Yun Hua Noncentral difference quotients convergence and derivation. (Chinese. English and Chinese summaries)
Cheng, Li She (*with* Luo, Man) The unity of the higher-order derivation and primary function for a kind of function. (Chinese. English and Chinese summaries)
Chiţescu, Ion Approximate Radon-Nikodym derivatives in a general functional framework. (English summary)
Cringanu, Jenică Mean value theorem for real continuous functions. (English summary) **2001f:26006**
Csörnyei, Marianna On Whitney pairs. (English summary) **2001b:26004**
Dimitrovski, Aleksandar *see* **Dimitrovski, Dragan**
Dimitrovski, Dragan (*with* Dimitrovski, Aleksandar) A theorem on the differentiation of improper integrals with respect to a parameter, and its technical applications. (Macedonian. French and Macedonian summaries)
Fejzić, Hajrudin Calculus on subsets of the real line. (English and Serbo-Croatian summaries) **2001k:26006**
Ginchev, Ivan (*with* Guerraggio, Angelo; Rocca, Matteo) Equivalence of $(n+1)$-th order Peano and usual derivatives for n-convex functions. (English summary) **2001d:26012**
— (*with* Rocca, Matteo) On Peano and Riemann derivatives. (English summary) **2001k:26007**
Guerraggio, Angelo *see* **Ginchev, Ivan et al., 2001d:26012**

Guo, Bai Ni (*with* Qi, Feng) Generalized weighted mean values with two parameters and their monotonicity. (Chinese. English and Chinese summaries)
Han, Ying Polya's Lagrange mean value theorem. (Chinese. English and Chinese summaries)
La Torre, Davide (*with* Rocca, Matteo) $C^{k,1}$ functions and Riemann derivatives. (English summary) **2001e:26008**
Lin, Xin An easy method of differentiation in no need of limit. (Chinese. English and Chinese summaries)
Luo, Man *see* **Cheng, Li She**
Popa, Dumitru On the vector form of the Lagrange formula, the Darboux property and l'Hôpital's rule. (English summary) **2001d:26013**
Preiss, David (*with* Zajíček, Luděk) On Dini and approximate Dini derivates of typical continuous functions. (English summary) **2001m:26012**
Qi, Feng *see* **Guo, Bai Ni**
Rocca, Matteo *see* **Ginchev, Ivan et al., 2001d:26012; 2001k:26007** *and* **La Torre, Davide, 2001e:26008**
Sulaiman, W. T. On the mean value theorem. (English summary)
Trandafir, A. E. On the zeros of a function. (English summary) **2001d:26014**
Vasantha Kandasamy, W. B. Some applications of the decimal derivative.
Wachnicki, Eugeniusz Une variante du théorème de Cauchy de la valeur moyenne. (French summary) [A variant of the Cauchy mean value theorem]
Zajíček, Luděk *see* **Preiss, David, 2001m:26012**

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Benoist, Joël The size of the Dini subdifferential. (English summary) **2001e:26006**
Darji, Udayan B. Two general extension theorems. (English summary) **2001b:26002**
Djordjević, Gospava B. Derivative sequences of generalized Jacobsthal and Jacobsthal-Lucas polynomials. **2001f:11023**
Ene, Vasile A note on the convergence of UAC sequences. (English summary) **2001d:26024**
— Thomson's variational measure and some classical theorems. (English summary) **2001i:26009**
Kaptanoğlu, H. Turgay In praise of $y = x^\alpha \sin(\frac{1}{x})$. **2001m:26003**
Kim, Young-Ho On some further extensions of the characterizations of mean values by H. Haruki and Th. M. Rassias. (English summary) **2001a:26025**
Riedel, T. *see* **Sahoo, Prasanna K., 2001h:39027**
Sahoo, Prasanna K. (*with* Riedel, T.) ★ Mean value theorems and functional equations. **2001h:39027**
Vallin, Robert W. Continuity and differentiability aspects of metric preserving functions. (English summary) **2001g:26003**
Yang, Winston C. Derivatives are essentially integer partitions. (English summary) **2001k:05020**

26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

Girgensohn, Roland An infinite-dimensional subspace of $C[0, 1]$ consisting of functions with no finite one-sided derivatives. (English summary)
Liu, Wen[1] A nowhere differentiable continuous function. **2001e:26009**

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Belili, Nacereddine (*with* Heinich, Henri) Mass transport problem and derivation. (English summary) **2001a:60016**
Heinich, Henri *see* **Belili, Nacereddine, 2001a:60016**
Hencl, Stanislav Isometrical embeddings of separable Banach spaces into the set of nowhere approximatively differentiable and nowhere Hölder functions. (English summary) **2001b:46026**
Kairies, Hans-Heinrich A remarkable system of eight functional equations. (English summary) **2001f:39024**
Kharazishvili, A. B. ★ Strange functions in real analysis. (English summary) **2001h:26001**
Liu, Yan-Yan A function whose graph is of dimension 1 and has locally an infinite one-dimensional Hausdorff measure. (English and French summaries) **2001k:28007**
Matkarimov, B. T. The Riemann non-differentiable function and identities for the Gaussian sums. **2001g:11131**
Pallaschke, Diethard (*with* Rolewicz, Stefan) Sublinear functions which generate the group of normal forms of piecewise smooth Morse functions. (English summary) **2001e:58052**
Pipiras, Vladas (*with* Taqqu, Murad S.) Convergence of the Weierstrass-Mandelbrot process to fractional Brownian motion. (English summary) **2001j:60066**
Rolewicz, Stefan *see* **Pallaschke, Diethard, 2001e:58052**
Stroock, Daniel W. Doing analysis by tossing a coin. (English summary) **2001j:60003**
Taqqu, Murad S. *see* **Pipiras, Vladas, 2001j:60066**

26A30 Singular functions, Cantor functions, functions with other special properties

Alonso, Alberto (*with* Rosenblueth, Javier F.) Periodic functions in a compact interval. (English summary) **2001h:26008**
D'Aniello, Emma (*with* Darji, Udayan B.) On the existence of C^1 functions with perfect level sets. (English summary) **2001d:26015**
Darji, Udayan B. *see* **D'Aniello, Emma, 2001d:26015**
Fazylov, V. R. *see* **Lerner, È. Yu.**
Kaul, R. N. (*with* Lalitha, C. S.) A note on arcwise connected and related functions. (English summary) **2001k:26008**
Lalitha, C. S. *see* **Kaul, R. N., 2001k:26008**
Lerner, È. Yu. (*with* Fazylov, V. R.) Quasi-inverse functions and their properties. (Russian)
Pokorný, Imrich Metric preserving functions and infimal convolution. (English summary) **2001e:26010**
Pratsevityĭ, N. V. Singular functions. (Ukrainian) **2001a:26004**
Rosenblueth, Javier F. *see* **Alonso, Alberto, 2001h:26008**

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Berg, L. (*with* Krüppel, M.) De Rham's singular function and related functions. (English summary) **2001f:39023**
Bibiloni, Lluís *see* **Paradís, Jaume et al., 2001g:06003**
Csörnyei, Marianna On Whitney pairs. (English summary) **2001b:26004**
Kharazishvili, A. B. ★ Strange functions in real analysis. (English summary) **2001h:26001**
Krüppel, M. *see* **Berg, L., 2001f:39023**
Lu, Shipan The Hausdorff dimension and measure of some Cantor sets. (English summary) **2001d:28004**
Olver, Peter J. (*with* Raphael, Robert M.) The absolute value of functions. (English summary) **2001c:54011**
Paradís, Jaume (*with* Viader, Pelegrí; Bibiloni, Lluís) A total order in $(0, 1]$ defined through a 'next' operator. (English summary) **2001g:06003**
Raphael, Robert M. *see* **Olver, Peter J., 2001c:54011**
Viader, Pelegrí *see* **Paradís, Jaume et al., 2001g:06003**

26A33 Fractional derivatives and integrals

Ahmad Ali, S. Leibnitz theorem for fractional derivative of generalized functions. (English summary)
Ali, Ismail A fractional calculus operators approach to doubly confluent Heun and generalized ellipsoidal wave equations. (English and Arabic summaries) **2001d:26016**
Al-Shammery, A. H. (*with* Kalla, Shyam L.; Khajah, H. G.) A fractional generalization of the free electron laser equation. (English summary) **2001b:26005**
Anastassiou, George A. Opial type inequalities involving fractional derivatives of functions. (English summary) **2001b:26006**
Aouf, M. K. (*with* Darwish, H. E.; Attiya, A. A.) Some applications of fractional calculus operators associated with a certain class of prestarlike functions with negative coefficients. (English summary) **2001b:26007**
Attiya, A. A. *see* **Aouf, M. K. et al., 2001b:26007**
Ben Adda, Fayçal (*with* Cresson, Jacky) Divergence d'échelle et différentiabilité. (English and French summaries) [Scale divergence and differentiability] **2001d:26017**
Chaurasia, V. B. L. (*with* Gupta, Neeti) General fractional integral operators, general class of polynomials and Fox's H-function. (English summary) **2001b:26008**
Chen, Kung Yeu (*with* Srivastava, Hari M.) Some infinite series and functional relations that arose in the context of fractional calculus. (English summary) **2001m:26013**
Cresson, Jacky *see* **Ben Adda, Fayçal, 2001d:26017**
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Dinh Nho Hào (*with* Mai Thi Thu) Stability results for fractional differentiation. (English summary) **2001j:26001**
El-Sayed, Ahmed M. A. (*with* Ibrahim, Ahmed Gamal) Set-valued integral equations of fractional-orders. (English summary) **2001m:26014**
Galué, Leda (*with* Kalla, Shyam L.; Vũ Kim Tuấn) Composition of Erdélyi-Kober fractional operators. (English summary) **2001e:26011**
— Composition of hypergeometric fractional operators. (English and Arabic summaries) **2001b:26009**
Garg, Mridula (*with* Purohit, Mridula) A study of multidimensional fractional integral operators and generalized Stieltjes transform. (English summary) **2001b:26009**
Gasper, George (*with* Trebels, Walter) Norm inequalities for fractional integrals of Laguerre and Hermite expansions. (English summary) **2001h:26010**
Gorenflo, Rudolf (*with* Iskenderov, A. D.; Luchko, Yurii F.) Mapping between solutions of fractional diffusion-wave equations. (English summary) **2001c:26005**
Gupta, Neeti *see* **Chaurasia, V. B. L., 2001b:26008**
Handley, G. D. (*with* Koliha, J. J.; Pečarić, Josip) Hilbert-Pachpatte type integral inequalities for fractional derivatives. (English summary) **2001m:26015**
Hartley, Tom T. *see* **Lorenzo, Carl F., 2001i:26004**
Hong, Yong[2] Spherical fractional integration. (Chinese. English and Chinese summaries) **2001c:26006**
Ibrahim, Ahmed Gamal *see* **El-Sayed, Ahmed M. A., 2001m:26014**
Iskenderov, A. D. *see* **Gorenflo, Rudolf et al., 2001c:26005**
Kalla, Shyam L. *see* **Al-Shammery, A. H. et al., 2001b:26005** *and* **Galué, Leda et al., 2001e:26011**
Khajah, H. G. *see* **Al-Shammery, A. H. et al., 2001b:26005**
Kilbas, A. A. (*with* Trujillo, Juan J.) Computation of fractional integrals via functions of hypergeometric and Bessel type. (English summary) **2001f:26007**
Kiryakova, Virginia S. Multiple (multiindex) Mittag-Leffler functions and relations to generalized fractional calculus. (English summary) **2001c:26012**
Kleinz, Marcia (*with* Osler, Thomas J.) A child's garden of fractional derivatives. **2001d:26018**
Koliha, J. J. *see* **Handley, G. D. et al., 2001m:26015**
Laković, Bosa *see* **Potapov, Mikhail Konstantinovich et al., 2001b:26013**
Lorenzo, Carl F. (*with* Hartley, Tom T.) Initialized fractional calculus. (English summary) **2001i:26004**
Love, E. R. On a fractional calculus formula of R. Tremblay and B. J. Fugère. (English summary) **2001b:26010**
Luchko, Yurii F. Operational method in fractional calculus. (English summary) **2001b:26011**
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Matera, Josefina *see* **Nishimoto, Katsuyuki et al.**
Nakai, Eiichi On generalized fractional integrals. (*see* **2001e:46001**)
Nishimoto, Katsuyuki N-fractional calculus of $\zeta(z; a)$ and $\zeta(-z; a)$. (English summary) **2001c:26007**
— N-fractional calculus method to an almost wave equation. (English summary) **2001b:26012**
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26A42 Integrals of Riemann, Stieltjes and Lebesgue type [see also 28–XX]

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Pfeffer, Washek F. The Lebesgue and Denjoy-Perron integrals from a descriptive point of view. (English summary) **2001f:26010**
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26A45 Functions of bounded variation, generalizations

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Ene, Vasile On some classes of functions related to Lusin's condition (N). (English summary) **2001d:26022**
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Bridges, Douglas S. A constructive look at functions of bounded variation. (English summary) **2001b:03066**
Csörnyei, Marianna On Whitney pairs. (English summary) **2001b:26004**
Darji, Udayan B. Two general extension theorems. (English summary) **2001b:26002**
Di Piazza, Luisa Variational measures in the theory of the integration in $\mathbb{R}^m$. (English summary) **2001m:28003**
Ene, Vasile Theorems of Lusin type. (English summary) **2001d:26025**
— An improvement of a recent result of Thomson. (English summary) **2001h:28003**
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Thomson, Brian S. The space of Denjoy-Perron integrable functions. (English summary) **2001h:26014**
Tomovski, Živorad An extension of the Garrett-Stanojević class. (English summary) **2001b:42004**
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Zhou, Guan Zhen (*with* Zhou, Song Ping) On series of non-negative terms. (English summary)
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26A46 Absolutely continuous functions

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Ene, Vasile On some classes of functions related to Lusin's condition (N). (English summary) **2001d:26022**
— Notes on the (PVB) and (PAC) functions. (English summary) **2001d:26023**
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Filippov, V. V. On second-order differential inclusions. (Russian. English and Russian summaries) **2001h:34028**
Peres, Yuval (*with* Schlag, Wilhelm; Solomyak, Boris) Sixty years of Bernoulli convolutions. (English summary) **2001m:42020**
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26A48 Monotonic functions, generalizations

Chen, Jian Qi (*with* Xie, Bi Hua) Commutativity between the operation of a monotonically continuous function and upper limit. (Chinese. English and Chinese summaries)
Qi, Feng (*with* Zhang, Shi-Qin) Note on monotonicity of generalized weighted mean values. (English summary) **2001m:26020**
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Slater, Paul B. Monotonicity properties of certain measures over the two-level quantum systems. (English summary) **2001i:81100**
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26A51 Convexity, generalizations

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Fenton, P. C. A min-max theorem for sums of translates of a function. (English summary) **2001a:26007**
Finol, Carlos E. (*with* Wójtowicz, Marek) Multiplicative properties of real functions with applications to classical functions. (English summary) **2001a:26008**
Finta, Zoltán On the impossibility of approximating convex functions with C^2 ones. (English summary) **2001i:26010**
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Matkowski, Janusz (*with* Nikodem, Kazimierz) Convex set-valued functions on $(0,\infty)$ and their conjugate. (English summary) **2001k:26014**
Niculescu, Constantin P. Convexity according to the geometric mean. (English summary) **2001c:26012**
Nikodem, Kazimierz (*with* Páles, Zsolt; Wąsowicz, Szymon) Abstract separation theorems of Rodé type and their applications. (English summary) **2001c:26013**
— (*with* Sadowska, Elżbieta; Wąsowicz, Szymon) A note on separation by subadditive and sublinear functions. (English summary) **2001f:26013**
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Bianchi, Monica (*with* Torriero, Anna) Some localization theorems using a majorization technique. (English summary) **2001i:90080**
Boros, Z. (*with* Páles, Zsolt; Volkmann, Peter) On stability for the Jensen equation on intervals. (English summary) **2001m:39062**
Cao, Xiao Qin The mean value inequality of the power about the convex function and concave function. (Chinese. English and Chinese summaries)
Elezović, Neven (*with* Pečarić, Josip) A note on Schur-convex functions. (English summary) **2001k:26026**
Giordano, Carla *see* **Allasia, Giampietro et al., 2001m:26048**
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Mitin, D. Yu. On an inequality for a convex function. (Ukrainian) **2001d:26039**
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26A99 None of the above, but in this section

Kuba, Gerald The number of lattice points above the catenary. (English summary) **2001c:26014**

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Poreda, Wiesława (*with* Wagner-Bojakowska, Elżbieta) On the measurable boundaries of real functions. (Polish summary) **2001f:28006**
Wagner-Bojakowska, Elżbieta *see* **Poreda, Wiesława, 2001f:28006**

26Bxx Functions of several variables

26B05 Continuity and differentiation questions

Bondar, A. V. On the differentiability of open mappings. (Ukrainian. English and Ukrainian summaries) **2001a:26011**
Carrese, Rosalba On regular J-differentiability. (English summary) **2001g:26010**
Chmielewska, Katarzyna On strong product measurability. (English summary) **2001m:26023**
— (*with* Grande, Zbigniew) On the measurability and the Baire property of functions of two variables whose all vertical sections are derivatives. (English summary) **2001k:26016**
Ciesielski, Krzysztof[2] (*with* Natkaniec, Tomasz; Wojciechowski, Jerzy) Extending connectivity functions on $\mathbb{R}^n$. (English summary) **2001m:26024**
Dzagnidze, O. A necessary and sufficient condition for differentiability functions of several variables. (English and Georgian summaries) **2001m:26025**
— On the limit and continuity of functions of several variables. (English and Georgian summaries)
Fejzić, Hajrudin (*with* Rinne, Dan; Weil, Clifford) Extending n times differentiable functions of several variables. (English summary) **2001f:26014**
Grande, Zbigniew On the measurability of functions $f:\mathbb{R}^2\to\mathbb{R}$ having Pawlak's property in one variable. (English summary) **2001d:26026**
— *see also* **Chmielewska, Katarzyna, 2001k:26016**
Korobkov, M. V. On a generalization of Darboux's theorem to the multidimensional case. (Russian. Russian summary) **2001f:26015**
Kulpa, W. (*with* Socha, Leslaw; Turzański, Marian) Parametric extension of the Poincaré theorem. (English summary) **2001j:26005**
Mishkov, Roumen L. Generalization of the formula of Faa di Bruno for a composite function with a vector argument. (English summary) **2001f:26016**
Natkaniec, Tomasz *see* **Ciesielski, Krzysztof**[2] **et al., 2001m:26024**
Okropiridze, M. Symmetric differentiability of functions of two variables. (English and Georgian summaries) **2001m:26026**
Rinne, Dan *see* **Fejzić, Hajrudin et al., 2001f:26014**
Slezák, B. A right inverse function theorem without assuming differentiability. (English summary) **2001e:26018**
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Weil, Clifford *see* **Fejzić, Hajrudin et al., 2001f:26014**
Wesołowska, Jolanta On the strong quasi-continuity of multivalued maps of two variables. (English summary) **2001h:26017**
Wojciechowski, Jerzy *see* **Ciesielski, Krzysztof**[2] **et al., 2001m:26024**
Wojdowski, Wojciech Continuity in terms of functional convergence. (English summary) **2001f:26017**
Wordsworth, J. R. Asymptotic values of fine continuous functions. **2001j:26006**

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Lepsveridze, G. A note on Zygmund's problem of a strong differentiability.
Maslyuchenko, V. K. (*with* Mikhaĭlyuk, Vladimir Vasil'evich) Characterization of sets of discontinuity points of separately continuous functions of several variables on products of metrizable spaces. (Ukrainian. English and Ukrainian summaries) **2001m:54017**
Mikhaĭlyuk, Vladimir Vasil'evich *see* **Maslyuchenko, V. K., 2001m:54017**
Rabus, Mariusz (*with* Shelah, Saharon) Covering a function on the plane by two continuous functions on an uncountable square—the consistency. (English summary) **2001b:03050**
Shelah, Saharon *see* **Rabus, Mariusz, 2001b:03050**

26B10 Implicit function theorems, Jacobians, transformations with several variables

Campbell, L. Andrew Unipotent Jacobian matrices and univalent maps. (English summary) **2001m:26027**
Lax, Peter D. Change of variables in multiple integrals. II. **2001m:26028**

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Bazsó, F. Derivation of vector-valued Boolean functions. (English summary) **2001i:94090**
Capone, Claudia (*with* Formica, Maria Rosaria) A pairing between BMO functions and Jacobians. (English summary) **2001j:46033**
Chamberland, Marc Diffeomorphic real-analytic maps and the Jacobian conjecture. (English summary) **2001m:37079**
Cianchi, Andrea Optimal integrability of the Jacobian of orientation preserving maps. (Italian summary) **2001b:58016**
Coşulschi, Mirel *see* **Mustafa, Octavian, 2001m:46093**

Dem'yanov, V. F. (*with* Murzabekova, G. E.) Convexifiers and implicit functions in nonsmooth systems. (Russian. Russian summary) **2001d:49024**
Edigarian, Armen Local homeomorphisms in $\mathbb{R}^2$. (English summary) **2001m:30051**
Formica, Maria Rosaria *see* **Capone, Claudia, 2001j:46033**
Hang, Fengbo (*with* Lin, Fang Hua) A remark on the Jacobians. **2001f:49082**
Iwaniec, Tadeusz (*with* Verde, Anna) On the operator $\mathcal{L}(f) = f \log|f|$. (English summary) **2001f:42034**
Korobkov, M. V. On a generalization of Darboux's theorem to the multidimensional case. (Russian. Russian summary) **2001f:26015**
Lin, Fang Hua *see* **Hang, Fengbo, 2001f:49082**
Murzabekova, G. E. *see* **Dem'yanov, V. F., 2001d:49024**
Mustafa, Octavian (*with* Coşulschi, Mirel) Perturbation lemmas in Banach spaces. (English summary) **2001m:46093**
Verde, Anna *see* **Iwaniec, Tadeusz, 2001f:42034**

26B12 Calculus of vector functions

Peng, Li Zhong (*with* Yang, Lei[2]) The curl in seven dimensional space and its applications. (English summary) **2001i:26011**
Waphare, B. B. Some recurrence relations involving vector differential operator ∇. (English summary)
— n-dimensional vector differential operator ∇_n and related results. (English summary)
Yang, Lei[2] *see* **Peng, Li Zhong, 2001i:26011**

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Abou-Tair, I. A. (*with* Sulaiman, W. T.) Simple methods for proving some major inequalities. (English summary) **2001d:26032**
Federson, Márcia The fundamental theorem of calculus for multidimensional Banach space-valued Henstock vector integrals. (English summary) **2001g:26007**
Sulaiman, W. T. *see* **Abou-Tair, I. A., 2001d:26032**

26B15 Integration: length, area, volume [see also 28A75, 51M25]

Cater, Frank S. On the curves of minimal length on spheres in real Hilbert spaces. (English summary) **2001d:26027**
Lin'kov, L. V. Equivalence of different definitions of a double regular integral on a plane. (Russian. Russian summary) **2001i:26012**
Nakanishi, Shizu Approximation theory by Lebesgue integrals for multidimensional non-absolutely convergent integrals. (English summary) **2001h:26018**
Plotnikov, M. G. On the Mawhin integral and its application to Haar series. (Russian. Russian summary) **2001i:26013**
Volchkov, Vit. V. On functions with zero integrals over parallelepipeds. (Russian) **2001b:26015**

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Ben-Israel, Adi An application of the matrix volume in probability. (English summary) **2001m:60024**
Di Piazza, Luisa Variational measures in the theory of the integration in $\mathbb{R}^m$. (English summary) **2001m:28003**
Farag, Hany M. Unrectifiable 1-sets with moderate essential flatness satisfy Besicovitch's $\frac{1}{2}$-conjecture. (English summary) **2001e:28009**
Kedem, Benjamin *see* **Ni, Zhongren, 2001d:62056**
Ni, Zhongren (*with* Kedem, Benjamin) On normal orthant probabilities. (English and Chinese summaries) **2001d:62056**

26B20 Integral formulas (Stokes, Gauss, Green, etc.)

Ermolaeva, T. O. Some examples of the computation of the multiple integrals of rational functions by means of toric compactifications. (Russian) **2001a:26012**

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Harrison, Jenny C. Flux across nonsmooth boundaries and fractal Gauss/Green/Stokes' theorems. (English summary) **2001k:58017**
Waphare, B. B. Some recurrence relations involving vector differential operator ∇. (English summary)

26B25 Convexity, generalizations

Albano, Paolo (*with* Cannarsa, Piermarco) Structural properties of singularities of semiconcave functions. (English summary) **2001g:26011**
Cannarsa, Piermarco *see* **Albano, Paolo, 2001g:26011**
Dilworth, Stephen J. (*with* Howard, Ralph; Roberts, James W.) Extremal approximately convex functions and estimating the size of convex hulls. (English summary) **2001c:26015**
Howard, Ralph *see* **Dilworth, Stephen J. et al., 2001c:26015**
Jüttler, Bert Arbitrarily weak linear convexity conditions for multivariate polynomials. (English summary) **2001f:26018**
Li, Duan *see* **Yang, Xin Min, 2001m:26030**
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Sychev, Mikhail A. Characterization of homogeneous gradient Young measures in case of arbitrary integrands. (English summary) **2001m:26029**
Yang, Xin Min (*with* Li, Duan) On properties of preinvex functions. (English summary) **2001m:26030**

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Aczél, János (*with* Maksa, Gyula; Páles, Zsolt) Solution of a functional equation arising in an axiomatization of the utility of binary gambles. (English summary) **2001e:39008**
Alghamdi, Mariam A. *see* **Okb El-Bab, A. S., 2001a:46046**
Ansari, Qamrul Hasan (*with* Schaible, Siegfried; Yao, Jen Chih) η-pseudolinearity. (English and Italian summaries) **2001e:90058**
Bounkhel, M. (*with* Thibault, Lionel) Subdifferential regularity of directionally Lipschitzian functions. (English summary) **2001c:49024**
Breckner, Wolfgang W. (*with* Trif, Tiberiu) Equicontinuity and Hölder equicontinuity of families of generalized convex mappings. (English summary) **2001j:47091**
Cabello Sánchez, Félix Nearly convex functions, perturbations of norms and K-spaces. (English summary) **2001f:46016**
Colesanti, Andrea (*with* Hug, Daniel) Hessian measures of semi-convex functions and applications to support measures of convex bodies. (English summary) **2001f:52008**
— (*with* Hug, Daniel) Steiner type formulae and weighted measures of singularities for semi-convex functions. (English summary) **2001h:49062**
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26C05 Polynomials: analytic properties, etc. [see also 12Dxx, 12Exx]

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26D05 Inequalities for trigonometric functions and polynomials

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26D07 Inequalities involving other types of functions

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26D10 Inequalities involving derivatives and differential and integral operators

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26D99 None of the above, but in this section

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26Exx Miscellaneous topics [see also 58Cxx]

26E05 Real-analytic functions [see also 32B05, 32C05]

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26E10 C^∞-functions, quasi-analytic functions [see also 58C25]

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26E15 Calculus of functions on infinite-dimensional spaces [see also 46G05, 58Cxx]

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26E20 Calculus of functions taking values in infinite-dimensional spaces [see also 46E40, 46G10, 58Cxx]

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26E25 Set-valued functions [see also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx.}

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26E30 Non-Archimedean analysis [see also 12J25]

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Paulson, Lawrence C. *see* Fleuriot, Jacques D., 2001j:03022
Possani, Cláudio *see* Bianconi, Ricardo et al., 2001g:28007
Prandini, João C. *see* Bianconi, Ricardo et al., 2001g:28007
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26E40 Constructive real analysis [see also 03F60]

Items with secondary classifications in 26E40

Bridges, Douglas S. (*with* Mahalanobis, Ayan) Sequential continuity of functions in constructive analysis. (English summary) 2001c:03102
Mahalanobis, Ayan *see* Bridges, Douglas S., 2001c:03102
Spitters, Bas (*with* Veldman, Wim) A constructive converse of the mean value theorem. (English summary) 2001m:03128
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26E50 Fuzzy real analysis [see also 03E72, 28E10]

Grosu, Corina (*with* Grosu, Marta) Convergence on vector spaces with $\mathcal{F}$-localisation. (English summary) 2001m:26074
Grosu, Marta *see* Grosu, Corina, 2001m:26074
Guo, Shuang Bing Fuzzy continuous functions and sequential convergence for fuzzy functions. (Chinese. English and Chinese summaries)
Janiš, Vladimír[2] Moore-Osgood theorem for fuzzy functions. (English summary) 2001b:26032
Li, Hong Xing *see* Miao, Zhi Hong, 2001i:26026
Ma, Bo Convergence and continuity for fuzzy number metric spaces. (Chinese. English and Chinese summaries)
Miao, Zhi Hong (*with* Li, Hong Xing) Approximation problems for a class of fuzzy systems. (Chinese. English and Chinese summaries) 2001i:26026
Syau, Yu-Ru Differentiability and convexity of fuzzy mappings. (English summary) 2001k:26033

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Chen, Shan-Huo (*with* Li, Guo-Chin) Representation, ranking, and distance of fuzzy number with exponential membership function using graded mean integration method. (English summary)
Chiang, Jung-Hsien Aggregating membership values by a Choquet-fuzzy-integral based operator. (English summary) 2001d:03126
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Deeba, E. Y. (*with* de Korvin, André) Analysis by fuzzy difference equations of a model of CO_2 level in the blood. (English summary) 2001g:39011
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Fang, Li Fei *see* Zhang, Hong Wei[3]
Feng, Yuhu Fuzzy stochastic differential systems. (English summary) 2001e:34109
Gong, Zeng Tai (*with* Wu, Cong Xin) The characterization of the primitives for (FH) integrable functions. (Chinese. English and Chinese summaries) 2001i:34019
— (*with* Wu, Cong Xin) The convergence theorems for the Henstock integral of fuzzy-number-valued functions. (Chinese. English and Chinese summaries)
— *see also* Wu, Cong Xin, 2001e:26017
Ishii, Hiroaki[1] *see* Chen, Minghao et al., (2001m:90005)
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Tripathy, B. K. (*with* Nanda, Sudarsan) Absolute value of fuzzy real numbers and fuzzy sequence spaces. (English summary) **2001j:46121**
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Wang, Gui Jun Two kinds of extensions and comparisons for interval-valued fuzzy measures. (Chinese. English and Chinese summaries)
Wu, Cong Xin (*with* Gong, Zeng Tai) On Henstock integrals of interval-valued functions and fuzzy-valued functions. (English summary) **2001e:26017**
— *see also* **Gong, Zeng Tai, 2001i:34019**
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Yasuda, Masami *see* **Kurano, Masami et al., (2001m:90005)**
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Zhang, Hong Wei[3] (*with* Fang, Li Fei) Fuzzy power series expansions for fuzzy functions. (Chinese. English and Chinese summaries)

26E60 Means [see also 47A64]

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— (*with* Lombardi, Ariel L.) A note on equivalence of means. (English summary) **2001m:26075**
Bjelica, Momčilo Asymptotic linearity of mean values. (English summary) **2001b:26033**
Dmitrieva, O. M. (*with* Malozëmov, V. N.) Degenerate means. (English summary) **2001i:26027**
— (*with* Malozëmov, V. N.) AGH means. (English summary) **2001f:26041**
Kim, Young-Ho On some further extensions of the characterizations of mean values by H. Haruki and Th. M. Rassias. (English summary) **2001a:26025**
— (*with* Ume, Jeong Sheok) New characterizations of well-known mean-values. II. (English summary) **2001i:26028**
— *see also* **Ume, Jeong Sheok, 2001k:26035**
Liu, Zheng[1] The upper bound and lower bound of the logarithmic mean. (Chinese. English and Chinese summaries)
Lombardi, Ariel L. *see* **Berrone, Lucio R., 2001m:26075**
Malozëmov, V. N. *see* **Dmitrieva, O. M., 2001f:26041** *and* **2001i:26027**
Qi, Feng Generalized abstracted mean values. (English summary) **2001d:26048**
Sándor, József On certain limits related to the number *e*. **2001k:26034**
Toader, Gh. Seiffert type means. (English summary) **2001a:26026**
Ume, Jeong Sheok (*with* Kim, Young-Ho) Some mean values related to the quasi-arithmetic mean. (English summary) **2001k:26035**
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Antoine, Charles Moyenne selon une loi de composition. (English and French summaries) [Mean according to a composition law] **2001m:06014**
Chong, Kwok-Kei On a Ky Fan's inequality and some related inequalities between means. (English summary) **2001k:26023**
Daróczy, Zoltán (*with* Ng, Che Tat) A functional equation on complementary means. (English summary) **2001m:39056**
Giordano, Carla *see* **Allasia, Giampietro et al., 2001e:26042**
Leonte, Alexandru (*with* Leonte, Aristide) The Gauss mean in abelian C^*-algebras. (English summary) **2001m:46119**
Leonte, Aristide *see* **Leonte, Alexandru, 2001m:46119**
Liu, Zheng[1] Remark on inequalities between Hölder and Lehmer means. **2001d:26038**
Marichal, Jean-Luc On an axiomatization of the quasi-arithmetic mean values without the symmetry axiom. (English summary) **2001b:39020**
Matkowski, Janusz Mean value property and associated functional equations. (English summary) **2001f:39026**
Ng, Che Tat *see* **Daróczy, Zoltán, 2001m:39056**
Niculescu, Constantin P. Convexity according to the geometric mean. (English summary) **2001c:26012**
Nowicki, Tomasz On the arithmetic and harmonic means. (English summary) **2001k:37027**
Ostasiewicz, Stanisława (*with* Ostasiewicz, Walenty) Means and their applications. (English summary) **2001m:91044**
Ostasiewicz, Walenty *see* **Ostasiewicz, Stanisława, 2001m:91044**
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Riedel, T. *see* **Sahoo, Prasanna K., 2001h:39027**
Sahoo, Prasanna K. (*with* Riedel, T.) ★ Mean value theorems and functional equations. **2001h:39027**
Shi, Hun Nan (*with* Wen, Jia Jin; Zhou, Bu Jun) An inequality for power mean. (English summary)
Wang, Wan-lan Some inequalities involving means and their converses. (English summary) **2001f:26037**
Wen, Jia Jin *see* **Shi, Hun Nan et al.**
Zhou, Bu Jun *see* **Shi, Hun Nan et al.**

26E99 None of the above, but in this section

Tabor, Jacek Remark on the characterization of continuous functions. (English summary) **2001m:26076**

28–XX Measure and integration {For analysis on manifolds, see 58–XX.}

28–01 Instructional exposition (textbooks, tutorial papers, etc.)

Ash, Robert B. ★ Probability and measure theory. **2001j:28001**
(Doléans-Dade, Catherine) *see* **Ash, Robert B., 2001j:28001**
Dshalalow, Jewgeni H. ★ Real analysis. (English summary) **2001h:28001**
Yeh, James J. ★ Lectures on real analysis. (English summary) **2001i:28001**

Items with secondary classifications in 28–01

Carothers, N. L. ★ Real analysis. (English summary)
Lieb, Elliott H. (*with* Loss, Michael) ★ Analysis. **2001i:00001**
Loss, Michael *see* **Lieb, Elliott H., 2001i:00001**
Morgan, Frank ★ Geometric measure theory. (English summary) **2001j:49001**
Panangaden, Prakash Measure and probability for concurrency theorists. (English summary) **2001k:68097**

28–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 28–03

(Bernoulli, Johann) *see* **Sierksma, Gerard, 2001c:01017**
Hawkins, Thomas The origins of modern theories of integration. (*see* **2001i:01004**)
Sierksma, Gerard (*with* Sierksma, Wybe) The great leap to the infinitely small. Johann Bernoulli: mathematician and philosopher. (English summary) **2001c:01017**
Sierksma, Wybe *see* **Sierksma, Gerard, 2001c:01017**

28–06 Proceedings, conferences, collections, etc.

(Bagchi, S. C.) *see* **Ergodic theory and harmonic analysis**
(Bandt, Christoph) *see* **Fractal geometry and stochastics, 2001d:28001**
(Dani, S. G.) *see* **Ergodic theory and harmonic analysis**
(Grabisch, Michel) *see* **Fuzzy measures and integrals, 2001a:28001**
(Graf, Siegfried) *see* **Fractal geometry and stochastics, 2001d:28001**
(Murofushi, Toshiaki) *see* **Fuzzy measures and integrals, 2001a:28001**
(Nadkarni, M. G.) *see* **Ergodic theory and harmonic analysis**
(Sugeno, Michio) *see* **Fuzzy measures and integrals, 2001a:28001**
(Zähle, Martina) *see* **Fractal geometry and stochastics, 2001d:28001**

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Conference:
Fractal Geometry and Stochastics ★ Fractal geometry and stochastics. II. **2001d:28001**
Ergodic theory and harmonic analysis ★ Ergodic theory and harmonic analysis.
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Nadkarni, Mahendra ★ Ergodic theory and harmonic analysis.
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Fuzzy measures and integrals ★ Fuzzy measures and integrals. **2001a:28001**
Greifswald/Koserow ★ Fractal geometry and stochastics. II. **2001d:28001**
Mumbai ★ Ergodic theory and harmonic analysis.

Items with secondary classifications in 28–06

(Downarowicz, Tomasz) *see* **Dedicated to the memory of Anzelm Iwanik**
(Lemańczyk, Mariusz) *see* **Dedicated to the memory of Anzelm Iwanik**
(Torra, Vicenç) *see* **Measures and aggregation: formal aspects and applications to clustering and decision, 2001g:03007**

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Conference:
Fuzzy Logic and Technology ★ Measures and aggregation: formal aspects and applications to clustering and decision. **2001g:03007**
Dedicated to the memory of Anzelm Iwanik ★ Dedicated to the memory of Anzelm Iwanik.
Fascicule de probabilités ★ Fascicule de probabilités. [Issue on probability theory] **2001e:60002**
Issue on probability theory ★ Fascicule de probabilités. [Issue on probability theory] **2001e:60002**
Mallorca ★ Measures and aggregation: formal aspects and applications to clustering and decision. **2001g:03007**
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Iwanik, Anzelm ★ Dedicated to the memory of Anzelm Iwanik.
Rennes ★ Fascicule de probabilités. [Issue on probability theory] **2001e:60002**
Seminar:
Probability Theory ★ Fascicule de probabilités. [Issue on probability theory] **2001e:60002**

28Axx Classical measure theory

28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [see also 03E15, 26A21, 54H05]

Abian, Alexander (*with* Kemp, Paula) A special nonmeasurable subset of real numbers. (English summary)
Aslim, G. (*with* Guseinov, G. Sh.) Weak semirings, ω-semirings, and measures. (English summary) **2001e:28001**
Balcerzak, Marek (*with* Peredko, Joanna) Errata: "Descriptive character of sets of density and $\mathcal{I}$-density points" [Real Anal. Exchange **23** (1997/1998), no. 1, 131–139; MR 99e:28002]. (English summary) **2001b:28001**
Basu, Sanjib[1] The effect of certain transformations on Lebesgue measurable sets and sets having the Baire-property in $\mathbf{R}^n$. (English summary) **2001f:28001**
— On sets with Baire property in topological spaces. (English summary) **2001c:28001**
Bongiorno, Donatella On a theorem of Steinhauss. (Italian. English summary) **2001a:28002**
Brown, Jack B. (*with* Elalaoui-Talibi, Hussain) Marczewski-Burstin-like characterizations of σ-algebras, ideals, and measurable functions. (English summary) **2001i:28002**
Chen, Zong Xun Some new monotone class theorems. (Chinese. English and Chinese summaries)
Csörnyei, Marianna A note on strongly invisible sets. (English summary) **2001b:28002**
Elalaoui-Talibi, Hussain *see* **Brown, Jack B., 2001i:28002**
Galaz Fontes, Fernando On the interior of certain measurable sets. (Spanish) **2001j:28002**
Guseinov, G. Sh. *see* **Aslim, G., 2001e:28001**
Keleti, Tamás The Dynkin system generated by the large balls of $\mathbf{R}^n$. (English summary) **2001b:28003**
— (*with* Preiss, David) The balls do not generate all Borel sets using complements and countable disjoint unions. (English summary) **2001d:28002**
Kemp, Paula *see* **Abian, Alexander**
Kharazishvili, A. B. Invariant measurable structures on groups and nonmeasurable subgroups. (English summary) **2001e:28003**
— On analogues of some classical subsets of the real line. (English summary) **2001e:28002**
Malinnikova, E. V. (*with* Rukshin, S. E.) On one Steinhaus problem. (English summary)
Miller, Harry I. (*with* Wyzinski, Henry L.) On openness of density points under mappings. (English summary) **2001c:28002**
Peredko, Joanna *see* **Balcerzak, Marek, 2001b:28001**
Preiss, David *see* **Keleti, Tamás, 2001d:28002**
Rukshin, S. E. *see* **Malinnikova, E. V.**
Rusu, Danut On a product of $\mathcal{D}$-complete σ-ideals. (English summary)
Samorodnitskiĭ, A. A. The Boolean principle of exhaustion and the construction of measure spaces. (Russian. English and Russian summaries) **2001c:28003**
— Some problems in the theory of Lebesgue-Rokhlin spaces. (Russian. English and Russian summaries) **2001g:28001**
Terepeta, Małgorzata (*with* Wagner-Bojakowska, Elżbieta) ψ-density topology. (English summary) **2001c:28004**
Wagner-Bojakowska, Elżbieta (*with* Wilczyński, Władysław) The interior operation in a ψ-density topology. (English summary) **2001i:28003**
— *see also* **Terepeta, Małgorzata, 2001c:28004**
Wilczyński, Władysław *see* **Wagner-Bojakowska, Elżbieta, 2001i:28003**
Wyzinski, Henry L. *see* **Miller, Harry I., 2001c:28002**

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Bella, Angelo The density topology is extraresolvable. (English summary) **2001k:54007**
Brendle, Jörg (*with* Löwe, Benedikt) Solovay-type characterizations for forcing-algebras. (English summary) **2001h:03086**
Christensen, Jens Peter Reus (*with* Kanoveĭ, V. G.; Reeken, Michael) On Borel orderable groups. (English summary) **2001m:03092**
Farah, Ilijas Analytic quotients: theory of liftings for quotients over analytic ideals on the integers. (English summary) **2001c:03076**
Foreman, Matthew A descriptive view of ergodic theory. **2001h:37003**
Hauser, Kai A minimal counterexample to universal Baireness. (English summary) **2001i:03102**
Holický, Petr (*with* Zelený, Miroslav) A converse of the Arsenin-Kunugui theorem on Borel sets with σ-compact sections. (English summary) **2001j:54045**
Kanoveĭ, V. G. *see* **Christensen, Jens Peter Reus et al., 2001m:03092**
Kominek, Václav A remark on the uniformization in metric spaces. (English summary) **2001c:54029**
Lecomte, Dominique Complexité des boréliens à coupes dénombrables. (French summary) [Complexity of Borel sets with countable sections] **2001k:54061**
Löwe, Benedikt *see* **Brendle, Jörg, 2001h:03086**
Luukkainen, Jouni The density topology is maximally resolvable. (English summary) **2001b:54006**
Recław, Ireneusz (*with* Zakrzewski, Piotr) Fubini properties of ideals. (English summary) **2001e:03086**
Reeken, Michael *see* **Christensen, Jens Peter Reus et al., 2001m:03092**
Svetic, R. E. (*with* Volkmer, Hans) The minimal Denjoy index of a symmetric perfect set. (English summary) **2001c:26001**
Volkmer, Hans *see* **Svetic, R. E., 2001c:26001**
Wagner-Bojakowska, Elżbieta (*with* Wilczyński, Władysław) Comparison of ψ-density topologies. (English summary) **2001f:26002**
Wilczyński, Władysław *see* **Wagner-Bojakowska, Elżbieta, 2001f:26002**
Zakrzewski, Piotr Extending Baire property by countably many sets. (English summary) **2001c:03083**
— Universally meager sets. (English summary) **2001m:03097**
— *see also* **Recław, Ireneusz, 2001e:03086**
Zelený, Miroslav *see* **Holický, Petr, 2001j:54045**

28A10 Real- or complex-valued set functions

Barron, E. N. (*with* Cardaliaguet, Pierre; Jensen, Robert R.) Radon-Nikodym theorem in L^∞. (English summary) **2001h:28002**
Belov, E. G. Lebesgue extension of τ-additive measures. (Russian. English and Russian summaries) **2001e:28004**
(Bhaskara Rao, K. P. S.) *see* **Errata: "A Stone space approach to the existence of bounded common extensions"**

Bouzar, N. A note on the Lebesgue-Darst decomposition theorem. (English summary) **2001a:28003**
Cardaliaguet, Pierre *see* **Barron, E. N. et al., 2001h:28002**
(D'Aniello, Emma) *see* **Errata: "A Stone space approach to the existence of bounded common extensions"**
Giannopoulos, A. A. (*with* Milman, Vitali D.) Concentration property on probability spaces. **2001m:28001**
Grishin, A. F. (*with* Makarenko, S. V.) On a theorem of Yulmukhametov. (Russian. Russian summary)
Jensen, Robert R. *see* **Barron, E. N. et al., 2001h:28002**
Liu, Xiao Jun *see* **Liu, Yang et al.**
Liu, Yang (*with* Liu, Xiao Jun; Zhao, Ming Qing) A kind of measuring space and its completeness. (Chinese. English and Chinese summaries)
Makarenko, S. V. *see* **Grishin, A. F.**
Milman, Vitali D. *see* **Giannopoulos, A. A., 2001m:28001**
Pap, Endre Daniell-Greco-Stone representation type theorem for autocontinuous from above functionals. (English summary) **2001k:28001**
Shi, Feng Ling *see* **Zhang, Rui et al.**
(Shortt, R. M.) *see* **Errata: "A Stone space approach to the existence of bounded common extensions"**
Tikhonov, O. E. Partial measures. (English summary) **2001e:28005**
Wang, Li Zhen *see* **Zhang, Rui et al.**
Zhang, Rui (*with* Wang, Li Zhen; Shi, Feng Ling) On the Steinhaus theorem. (Chinese. English and Chinese summaries)
Zhao, Ming Qing *see* **Liu, Yang et al.**

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"A Stone space approach to the existence of bounded common extensions" Corrigendum: "A Stone space approach to the existence of bounded common extensions" [J. Math. Anal. Appl. **219** (1998), no. 2, 442–454; MR 99h:28002] by E. D'Aniello, K. P. S. Bhaskara Rao and R. M. Shortt.

Items with secondary classifications in 28A10

Chentsov, A. G. Two-valued measures as generalized elements: the problem of the extension of a system of conditions. (Russian) **2001i:49027**
Fagin, Ronald (*with* Wimmers, Edward L.) A formula for incorporating weights into scoring rules. (English summary) **2001k:68025**
Florea, Dorel Some properties of finitely additive probabilities. (English summary)
Toader, Anca-Maria Links between Young measures associated to constrained sequences. (English summary) **2001m:28005**
Wimmers, Edward L. *see* **Fagin, Ronald, 2001k:68025**

28A12 Contents, measures, outer measures, capacities

Chentsov, A. G. Some properties of finitely-additive measures and their transformation on the basis of homeomorphisms of measurable structures. (Russian) **2001j:28003**
— Some properties of two-valued measures, and representations of limits with respect to a filter. (Russian) **2001b:28004**
— (*with* Morina, S. I.) On analogues of the uniform distribution in the class of purely finitely additive probabilities. (Russian) **2001c:28005**
Daykin, David E. The extreme points of the probabilistic capacities cone problem. **2001f:28002**
Denneberg, Dieter Totally monotone core and products of monotone measures. (English summary) (*see* **2001a:68006**)
Eckmann, Jean-Pierre (*with* Järvenpää, Esa; Järvenpää, Maarit) Porosities and dimensions of measures. (English summary) **2001c:28006**
Ene, Vasile An improvement of a recent result of Thomson. (English summary) **2001h:28003**
Falconer, Kenneth J. (*with* Järvenpää, Maarit; Mattila, Pertti) Examples illustrating the instability of packing dimensions of sections. (English summary) **2001h:28004**
Hsu, Pao-Sheng Characterizations of outer measures associated with lattice measures. (English summary) **2001g:28002**
Huang, Li-hu (*with* Yu, Jing-hu) Subsets with finite measure of multifractal Hausdorff measures. (English and Chinese summaries) **2001b:28005**
Järvenpää, Esa *see* **Eckmann, Jean-Pierre et al., 2001c:28006**
Järvenpää, Maarit *see* **Eckmann, Jean-Pierre et al., 2001c:28006** *and* **Falconer, Kenneth J. et al., 2001h:28004**
Kemp, Paula A nonmeasurable partition of the reals. (English summary) **2001k:28002**
Kominek, Zygfryd (*with* Wilczyński, Władysław) On sets for which the difference set is the whole space. (English summary)
König, Heinz J. E. On the inner Daniell-Stone and Riesz representation theorems. (English summary) **2001i:28004**
Laczkovich, Miklós Orders of absolute measurability. (English summary) **2001k:28003**
Leonov, G. A. The construction of the special outer Caratheodory measure for the estimation of the Hausdorff dimension of attractors. (English summary)
Marinacci, Massimo Upper probabilities and additivity. (English summary) **2001f:28003**
Mattila, Pertti *see* **Falconer, Kenneth J. et al., 2001h:28004**
Morina, S. I. *see* **Chentsov, A. G., 2001c:28005**
Pikhurko, Oleg On envy-free cake division. **2001f:28004**
Rinkewitz, Werner Existence and integral representation of regular extensions of measures. (English summary) **2001m:28002**
Stratigos, P. D. σ-smoothness, τ-smoothness, and tightness of measures under measure extension or restriction. (English summary) **2001g:28003**
Verma, R. K. K. On impact of uniqueness theorem for measures on complex plane. (English summary)
Walley, Peter Towards a unified theory of imprecise probability. (English summary) **2001c:28007**
Wilczyński, Władysław *see* **Kominek, Zygfryd**
Yu, Jing-hu *see* **Huang, Li-hu, 2001b:28005**

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Graziano, Maria Gabriella Decompositions of measures on Vitali spaces. (English summary) **2001j:06025**
König, Heinz J. E. The product theory for inner premeasures. (English summary) **2001h:28008**
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Riihentaus, Juhani Removable sets for subharmonic functions. (English summary) **2001e:31011**
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28A15 Abstract differentiation theory, differentiation of set functions [see also 26A24]

Bliedtner, Jürgen (*with* Loeb, Peter Albert) The optimal differentiation basis and liftings of L^∞. (English summary) **2001f:28005**
Di Piazza, Luisa Variational measures in the theory of the integration in $\mathbb{R}^m$. (English summary) **2001m:28003**
Lepsveridze, G. A note on the divergence order of rectangular integral averages of summable functions. (English summary)
— A note on Zygmund's problem of a strong differentiability.
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Morán, Manuel *see* **Mera, M. Eugenia, 2001d:28003**
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Lepsveridze, G. On order of growth of rectangular integral means of summable functions. (English and Georgian summaries) **2001g:42034**
Stokolos, A. M. Some applications of Gallagher's theorem in harmonic analysis. (English summary) **2001k:42028**

28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

Alonso, Alberto (*with* Rosenblueth, Javier F.) Twice periodic measurable functions. (English summary) **2001b:28006**
Amrani, Allal (*with* Castaing, Charles; Valadier, Michel) Convergence in Pettis norm under extreme point condition. (English summary) **2001j:28004**
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Casini, Emanuele (*with* Papini, Pier Luigi) Almost discrete convergence. (English summary) **2001g:28004**
Castaing, Charles (*with* Saadoune, Mohammed) Dunford-Pettis-types theorem and convergences in set-valued integration. (English summary) **2001g:28005b**
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Florescu, Liviu C. The index of convergence in measure. (*see* **2001i:00046**)
Garimella, Ramesh V. *see* **Jenkins, Russell S., 2001c:28008**
Jenkins, Russell S. (*with* Garimella, Ramesh V.) New characterizations of some L^p-spaces. (English summary) **2001c:28008**
Landers, D. (*with* Rogge, Lothar) Nonstandard criteria for Borel-measurability. (English summary) **2001g:28006**
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Papini, Pier Luigi *see* **Casini, Emanuele, 2001g:28004**
Poreda, Wiesława (*with* Wagner-Bojakowska, Elżbieta) On the measurable boundaries of real functions. (Polish summary) **2001f:28006**
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Toader, Anca-Maria Links between Young measures associated to constrained sequences. (English summary) **2001m:28005**
Valadier, Michel *see* **Amrani, Allal et al., 2001j:28004**
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— *see also* **Poreda, Wiesława, 2001f:28006**

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Wittje, Berthold Limit theorems for independent nonmeasurable functions. (English summary) **2001e:28007**
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— Lectures on Young measure theory and its applications in economics. (English summary) **2001m:49069**
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Couvreux, Jérôme From the Mosco and slice convergences for convex normal integrands to that of integral functionals on L^p spaces. (English summary) **2001i:49028**
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Kucia, Anna (*with* Nowak, Andrzej S.) Applications of the Hausdorff approach to semicontinuous functions. (English summary) **2001e:54027**
Lelekov, R. A. Necessary and sufficient conditions for the convergence of conditional mathematical expectations with respect to sigma algebras. (Russian) **2001i:60002**
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Nishiura, Togo Absolutely measurable functions on manifolds. (English summary) **2001c:26017**
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Prus-Wiśniowski, Franciszek (*with* Szkibiel, Grzegorz) A note on SAC property. (English summary) **2001d:26005**
Riccobono, Giuseppa Convergence theorems for the PU-integral. (English summary) **2001h:26012**
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28A25 Integration with respect to measures and other set functions

Bianconi, Ricardo (*with* Prandini, João C.; Possani, Cláudio) A Daniell integral approach to nonstandard Kurzweil-Henstock integral. (English summary) **2001g:28007**
Howroyd, J. D. A domain-theoretic approach to integration in Hausdorff spaces. (English summary) **2001m:28006**
Park, Jae Myung The Denjoy extension of the Riemann and McShane integrals. (English summary) **2001g:28008**
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Bao, Ge Jun (*with* Ding, Shu Sen; Ling, Yi) $L(\varphi,\mu)$-averaging domains and their geometric characterizations. (Chinese. Chinese summary) **2001m:30024**
Barron, E. N. (*with* Cardaliaguet, Pierre; Jensen, Robert R.) Radon-Nikodym theorem in L^∞. (English summary) **2001h:28002**
Brock, Friedemann A general rearrangement inequality à la Hardy-Littlewood. (English summary) **2001d:26046**
Cardaliaguet, Pierre *see* **Barron, E. N. et al., 2001h:28002**
Chentsov, A. G. Topological structures on the space of finitely additive measures and some their applications. (English summary) **2001c:49023**
de Cooman, Gert Integration in possibility theory. (English summary) **2001b:28027**
Ding, Shu Sen *see* **Bao, Ge Jun et al., 2001m:30024**
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Jensen, Robert R. *see* **Barron, E. N. et al., 2001h:28002**
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König, Heinz J. E. On the inner Daniell-Stone and Riesz representation theorems. (English summary) **2001i:28004**
Ling, Yi *see* **Bao, Ge Jun et al., 2001m:30024**
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28A33 Spaces of measures, convergence of measures [see also 46E27, 60Bxx]

Antoniou, Ioannis E. (*with* Shkarin, Stanislav A.) Decomposition of singular measures. (Russian) **2001g:28009**
Habil, Eissa D. The Brooks-Jewett theorem for k-triangular functions on difference posets and orthoalgebras. (English summary)
Hernández Lerma, Onésimo (*with* Lasserre, Jean Bernard) Fatou's lemma and Lebesgue's convergence theorem for measures. (English summary) **2001h:28005**
Lasserre, Jean Bernard *see* **Hernández Lerma, Onésimo, 2001h:28005**
Merkle, Milan Topics in weak convergence of probability measures. **2001h:28006**
Salvati, Simonetta The Brooks-Jewett theorem for k-triangular functions. (English summary) **2001g:28010**
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Chang, Kun Soo (*with* Lim, Jung Ah; Ryu, Kun Sik) Stability theorem for the Feynman integral via time continuation. (English summary) **2001b:28019**
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Goldstern, Martin (*with* Schmeling, Jörg; Winkler, Reinhard) Metric, fractal dimensional and Baire results on the distribution of subsequences. (English summary) **2001k:11152**
Gurka, Petr (*with* Martín-Reyes, F. J.; Ortega Salvador, Pedro; Pick, Luboš; Sarrión Gavilán, María Dolores; de la Torre, Alberto) Good and bad measures. (English summary) **2001e:26022**
Habil, Eissa D. A Stone's representation theorem and some applications. (English summary) **2001a:06019**
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Kawabe, Jun Weak convergence of compound probability measures on uniform spaces. (English summary) **2001b:60010**
Kundu, Subiman (*with* Raha, A. B.) The dual of $C_b(X)$. (English summary) **2001b:46041**
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Lim, Jung Ah *see* **Chang, Kun Soo et al., 2001b:28019**
Martín-Reyes, F. J. *see* **Gurka, Petr et al., 2001e:26022**
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Mosco, Umberto Self-similar measures in quasi-metric spaces. (English summary) **2001b:28013**
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Raha, A. B. *see* **Kundu, Subiman, 2001b:46041**
Ryu, Kun Sik *see* **Chang, Kun Soo et al., 2001b:28019**
Sarrión Gavilán, María Dolores *see* **Gurka, Petr et al., 2001e:26022**
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Trudinger, Neil S. (*with* Wang, Xu-Jia) Hessian measures. II. (English summary) **2001f:35141**
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28A35 Measures and integrals in product spaces

Anttila, M. The transportation cost for the cube. (English summary)
Farah, Ilijas Approximate homomorphisms. II. Group homomorphisms. (English summary) **2001h:28007**
König, Heinz J. E. The product theory for inner premeasures. (English summary) **2001h:28008**
Macheras, N. D. (*with* Strauss, Werner) On products of hyperstonian spaces. (English summary) **2001b:28008**
— (*with* Strauss, Werner) Mazur-Orlicz theorem in lifting theory. (English summary) **2001b:28007**
Mattner, Lutz Product measurability, parameter integrals, and a Fubini counterexample. (English summary) **2001a:28005**
Plachky, Detlef Note on invariant and almost invariant measurable sets. (English summary) **2001h:28009**
Strauss, Werner *see* **Macheras, N. D., 2001b:28007** *and* **2001b:28008**
Talagrand, Michel Concentration and influences. (English summary) **2001c:28009**

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Blei, R. (*with* Caggiano, J.) Projective boundedness and convolution of Fréchet measures. (English summary) **2001b:43001**
Bobkov, Sergei G. (*with* Houdré, Christian) Weak dimension-free concentration of measure. (English summary) **2001i:28005**
Caggiano, J. *see* **Blei, R., 2001b:43001**
Denneberg, Dieter Totally monotone core and products of monotone measures. (English summary) (*see* **2001a:68006**)
Hlubinka, Daniel *see* **Štěpán, Josef, 2001c:60005**
Houdré, Christian *see* **Bobkov, Sergei G., 2001i:28005**
Kwon, Ern Gun (*with* Yoon, Kang Hee) A Rado type extension of Hölder's inequality. (English summary) **2001i:26020**
— (*with* Shon, Kwang Ho) Refined Hölder's inequality for measurable functions. (English summary) **2001m:26057**
Lewandowski, Maciej Point regularity of p-stable density in $\mathcal{R}^d$ and Fisher information. (English summary) **2001a:60020**
Otto, Felix (*with* Villani, Cédric) Generalization of an inequality by Talagrand and links with the logarithmic Sobolev inequality. (English summary) **2001k:58076**
Shon, Kwang Ho *see* **Kwon, Ern Gun, 2001m:26057**

Štěpán, Josef (*with* Hlubinka, Daniel) Two-dimensional probabilities with a given conditional structure. (English summary) **2001c:60005**
Villani, Cédric *see* **Otto, Felix, 2001k:58076**
Wu, Jian Rong[1] Fubini theorems for set-valued and fuzzy integrals on Banach spaces. (English summary) **2001b:46071**
Yoon, Kang Hee *see* **Kwon, Ern Gun, 2001i:26020**

28A50 Integration and disintegration of measures

Fragoso, M. D. *see* **Leão, D., Jr. et al., 2001e:28008**
Leão, D., Jr. (*with* Fragoso, M. D.; Ruffino, Paulo R. C.) Characterizations of Radon spaces. (English summary) **2001e:28008**
Ruffino, Paulo R. C. *see* **Leão, D., Jr. et al., 2001e:28008**

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Gangbo, Wilfrid (*with* Van der Putten, Roberto) Uniqueness of equilibrium configurations in solid crystals. (English summary) **2001i:49059**
Park, Jae Myung The Denjoy extension of the Riemann and McShane integrals. (English summary) **2001g:28008**
Shub, Michael (*with* Wilkinson, Amie) Pathological foliations and removable zero exponents. **2001c:37030**
Van der Putten, Roberto *see* **Gangbo, Wilfrid, 2001i:49059**
Wilkinson, Amie *see* **Shub, Michael, 2001c:37030**

28A51 Lifting theory [see also 46G15]

Macheras, N. D. (*with* Musial, K.; Strauss, Werner) On products of admissible liftings and densities. (English summary) **2001g:28011**
Musial, K. *see* **Macheras, N. D. et al., 2001g:28011**
Strauss, Werner *see* **Macheras, N. D. et al., 2001g:28011**

Items with secondary classifications in 28A51

Bliedtner, Jürgen (*with* Loeb, Peter Albert) The optimal differentiation basis and liftings of L^∞. (English summary) **2001f:28005**
Loeb, Peter Albert *see* **Bliedtner, Jürgen, 2001f:28005**
Macheras, N. D. (*with* Strauss, Werner) On products of hyperstonian spaces. (English summary) **2001b:28008**
— (*with* Strauss, Werner) Mazur-Orlicz theorem in lifting theory. (English summary) **2001b:28007**
— *see also* **Musial, K., 2001h:46072**
Musial, K. (*with* Macheras, N. D.) Liftings of Pettis integrable functions. (English summary) **2001h:46072**
Strauss, Werner *see* **Macheras, N. D., 2001b:28007** *and* **2001b:28008**

28A60 Measures on Boolean rings, measure algebras [see also 54H10]

Graziano, Maria Gabriella Some problems for measures on non-standard algebraic structures. (Italian summary)
Keller, H. A. (*with* Schikhof, W. H.) Probability measures on non-Archimedean inner product spaces. (English summary)
Schikhof, W. H. *see* **Keller, H. A.**

Items with secondary classifications in 28A60

Benedikt, Michael Hierarchies of measure-theoretic ultrafilters. (English summary) **2001f:03088**
Busakhla, N. Yu. Measurable bundles of Dedekind logics. (Russian. English and Uzbek summaries) **2001k:03144**
— Decomposition of Dedekind logics into a measurable bundle. (Russian. English and Uzbek summaries) **2001k:03145**
— Measurable bundles of homomorphisms of Dedekind logics. (Russian. English and Uzbek summaries) **2001k:03146**
Dow, Alan (*with* Hart, Klaas Pieter) The measure algebra does not always embed. (English summary) **2001g:03089**
Farah, Ilijas Approximate homomorphisms. II. Group homomorphisms. (English summary) **2001h:28007**
Foulis, David J. Algebraic measure theory. (English summary) **2001m:81021**
Galvin, Fred (*with* Prikry, Karel) On Kelley's intersection numbers. (English summary) **2001e:05094**
Hart, Klaas Pieter *see* **Dow, Alan, 2001g:03089**
Haydon, Richard (*with* Levy, Mireille; Raynaud, Y.) ★ Randomly normed spaces. (English summary) **2001e:46017**
Levy, Mireille *see* **Haydon, Richard et al., 2001e:46017**
Mehemmed, Ali A. Algebraic proofs of Kwapień's and Lamperti's representation theorems. (English summary) **2001i:47058**
Prikry, Karel *see* **Galvin, Fred, 2001e:05094**
Raynaud, Y. *see* **Haydon, Richard et al., 2001e:46017**
Samorodnitskiĭ, A. A. The Boolean principle of exhaustion and the construction of measure spaces. (Russian. English and Russian summaries) **2001c:28003**
— Some problems in the theory of Lebesgue-Rokhlin spaces. (Russian. English and Russian summaries) **2001g:28001**
Shelah, Saharon Special subsets of $^{cf(\mu)}\mu$, Boolean algebras and Maharam measure algebras. (English summary) **2001i:03099**
Stratigos, P. D. σ-smoothness, τ-smoothness, and tightness of measures under measure extension or restriction. (English summary) **2001g:28003**

28A75 Length, area, volume, other geometric measure theory [see also 26B15, 49Q15]

Bobkov, Sergei G. (*with* Houdré, Christian) Weak dimension-free concentration of measure. (English summary) **2001i:28005**
Csörnyei, Marianna On the visibility of invisible sets. (English summary) **2001f:28007**
Farag, Hany M. Unrectifiable 1-sets with moderate essential flatness satisfy Besicovitch's $\frac{1}{2}$-conjecture. (English summary) **2001e:28009**
Hattori, Kumiko Exact Hausdorff dimension of self-avoiding processes on the multi-dimensional Sierpinski gasket. (English summary) **2001k:28004**
Houdré, Christian *see* **Bobkov, Sergei G., 2001i:28005**
Jiang, Hai Yi A rank zero theorem related to the Hausdorff measure. (Chinese. English and Chinese summaries)
Joyce, Helen (*with* Mörters, Peter) A set with finite curvature and projections of zero length. **2001j:28006**
Lau, Ka-Sing (*with* Ngai, Sze-Man) L^q-spectrum of Bernoulli convolutions associated with P. V. numbers. **2001c:28010**
Mitsis, T. On a problem related to sphere and circle packing. (English summary) **2001f:28008**
Mörters, Peter *see* **Joyce, Helen, 2001j:28006**
Ngai, Sze-Man *see* **Lau, Ka-Sing, 2001c:28010**
Patzschke, N. (*with* Zähle, Martina) Fractional differentiation in the self-affine case. IV. Random measures. (English summary) **2001e:28010**
Schechter, Alexander On the centred Hausdorff measure. (English summary) **2001k:28005**
Stefani, Oscar Gaps of approximating measures on constant width δ sets at $t = \delta$. **2001i:28006**
Zähle, Martina *see* **Patzschke, N., 2001e:28010**

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Baernstein, Albert, II (*with* Loss, Michael) Some conjectures about L^p norms of k-plane transforms. (English summary) **2001h:44005**
Basu, Sanjib[1] The effect of certain transformations on Lebesgue measurable sets and sets having the Baire-property in $\mathbf{R}^n$. (English summary) **2001f:28001**
Buckley, Stephen M. (*with* MacManus, Paul) Singular measures and the key of G. (English summary) **2001h:60069**
Buczolich, Zoltán Lipeomorphisms, sets of bounded variation and integrals. (English summary) **2001m:26007**
Capasso, Vincenzo (*with* Micheletti, Alessandra) Local spherical contact distribution function and local mean densities for inhomogeneous random sets. (English summary) **2001k:60011**
David, Guy Analytic capacity, Cauchy kernel, Menger curvature, and rectifiability. **2001a:30027**
Fan, Ai Hua (*with* Lau, Ka-Sing; Ngai, Sze-Man) Iterated function systems with overlaps. (English summary) **2001k:28009**
Farag, Hany M. Besicovitch's circle pairs, analytic capacity, and Cauchy integrals for a class of unrectifiable 1-sets. (English summary) **2001d:30070**
Giannopoulos, A. A. (*with* Milman, Vitali D.) Concentration property on probability spaces. **2001m:28001**
Hanson, Bruce H. (*with* Heinonen, Juha) An n-dimensional space that admits a Poincaré inequality but has no manifold points. (English summary) **2001e:43004**
Heinonen, Juha *see* **Hanson, Bruce H., 2001e:43004**
Ichiishi, Tatsuro (*with* Idzik, Adam) Equitable allocation of divisible goods. (English summary) **2001e:91114**
Idzik, Adam *see* **Ichiishi, Tatsuro, 2001e:91114**
Joyce, Helen Some measure-theoretic properties of packing measure. **2001a:28006**
Keleti, Tamás (*with* Preiss, David) The balls do not generate all Borel sets using complements and countable disjoint unions. (English summary) **2001d:28002**
Kenig, Carlos E. (*with* Toro, Tatiana) Free boundary regularity for harmonic measures and Poisson kernels. **2001d:31004**
Lau, Ka-Sing *see* **Fan, Ai Hua et al., 2001k:28009**
LeFloch, Philippe G. (*with* Tzavaras, Athanasios E.) Representation of weak limits and definition of nonconservative products. (English summary) **2001e:35113**
Loss, Michael *see* **Baernstein, Albert, II, 2001h:44005**
MacManus, Paul *see* **Buckley, Stephen M., 2001h:60069**
Micheletti, Alessandra *see* **Capasso, Vincenzo, 2001k:60011**
Milman, Vitali D. *see* **Giannopoulos, A. A., 2001m:28001**
Ngai, Sze-Man *see* **Fan, Ai Hua et al., 2001k:28009**
O'Neil, Toby C. The multifractal spectra of projected measures in Euclidean spaces. (English summary) **2001i:28012**
Peyrière, Jacques Recent results on Mandelbrot multiplicative cascades. (English summary) (*see* **2001d:28001**)
Preiss, David *see* **Keleti, Tamás, 2001d:28002**
Semmes, Stephen Measure-preserving quality within mappings. (English summary) **2001m:30029**
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28Bxx Set functions, measures and integrals with values in abstract spaces

28B05 Vector-valued set functions, measures and integrals [see also 46G10]

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28B10 Group- or semigroup-valued set functions, measures and integrals

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28B15 Set functions, measures and integrals with values in ordered spaces

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28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [see also 26E25, 54C60, 54C65, 91B14]

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Giner, E. On Pareto minima of vector-valued integral functionals. (English summary) **2001b:49010**

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28B99 None of the above, but in this section

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28Cxx Set functions and measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures

de Amo, E. (*with* Chiţescu, Ion; Díaz Carrillo, M.) An approximate functional Radon-Nikodym theorem. (English summary) **2001a:28014**
Berti, Patrizia (*with* Rigo, Pietro) Integral representation of linear functionals on spaces of unbounded functions. (English summary) **2001b:28016**
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Dukhovny, Alexander *see* **Ovchinnikov, Sergei V., 2001c:28021**
Fedorchuk, V. V. The tensor product of Radon probability measures is τ-additive. (Russian. English and Russian summaries) **2001e:28021**
Fernández Novoa, J. Generalized Radon spaces which are not Radon. (English and Spanish summaries) **2001b:28017**
Mikhalëv, A. V. *see* **Zakharov, Valeriĭ Konstantinovich, 2001g:28020**
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Rigo, Pietro *see* **Berti, Patrizia, 2001b:28016**
Tahata, Rataka Some remarks on Nakanishi's Riesz type representation of measures. (English summary) **2001c:28022**
Zakharov, Valeriĭ Konstantinovich (*with* Mikhalëv, A. V.) An integral representation for Radon measures on an arbitrary Hausdorff space. (Russian. English and Russian summaries)
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Chiţescu, Ion Approximate Radon-Nikodym derivatives in a general functional framework. (English summary)
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Kuzenkov, O. A. The Cauchy problem for an evolution equation with an unbounded operator in a family of Radon probability measures. (Russian. Russian summary) **2001d:34091**
Song, Shao Qiang (*with* He, Yuan Jiang) The Hun semigroup structure of counting measures on a non-separable space. (Chinese. English and Chinese summaries)

28C10 Set functions and measures on topological groups, Haar measures, invariant measures [see also 22Axx, 43A05]

Mukhin, Vladimir V. Modular functions of locally compact semigroups, and unimodular semigroups. (Russian. English and Russian summaries) **2001f:28017**
Niederreiter, Harald (*with* Sookoo, Norris) Partial densities on the group of integers. (English summary) **2001g:28021**
Sookoo, Norris *see* **Niederreiter, Harald, 2001g:28021**

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Artstein, Zvi Invariant measures of set-valued maps. **2001k:37006**
Nogueira, Arnaldo C. R. Invariant measures for the action of $SL(2, \mathbf{Z})$ on $\mathbf{R}^2$. (English summary) **2001a:37006**
Rüdiger, Barbara *see* **Al'beverio, S. et al., 2001i:60138**
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28C15 Set functions and measures on topological spaces (regularity of measures, etc.)

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Aldaz, J. M. (*with* Render, Hermann) Borel measure extensions of measures defined on sub-σ-algebras. (English summary) **2001f:28018**
Aleksandrova, D. E. (*with* Bogachev, Vladimir I.; Pilipenko, A. Yu.) On the convergence in variation of induced measures. (Russian. Russian summary) **2001c:28023**
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— *see also* **Aleksandrova, D. E. et al., 2001c:28023**
Bylund, Per (*with* Gudayol, Jaume) On the existence of doubling measures with certain regularity properties. (English summary) **2001b:28018**
Fernández Novoa, J. Coverability of Radon measures. (English summary) **2001h:28016**
Gudayol, Jaume *see* **Bylund, Per, 2001b:28018**
Klepnev, D. È. *see* **Klimkin, V. M.**
Klimkin, V. M. (*with* Klepnev, D. È.) On the uniform continuity of a family of nonadditive weakly regular set functions. (Russian)
König, Heinz J. E. Upper envelopes of inner premeasures. (English and French summaries) **2001h:28017**
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Rustad, Alf Birger Unbounded quasi-integrals. (English summary) **2001c:28024**
— *see also* **Aarnes, Johan F., 2001h:28015**
Sadovnichiĭ, Yu. V. On the Kantorovich norm for measures with variable sign. (Russian) **2001g:28022**
Stinchcombe, Maxwell B. The gap between probability and prevalence: loneliness in vector spaces. (English summary) **2001e:28022**
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Fragoso, M. D. *see* **Leão, D., Jr. et al., 2001e:28008**
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28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [see also 46G12, 58C35, 58D20, 60B11]

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28Dxx Measure-theoretic ergodic theory [see also 11K50, 11K55, 22D40, 37Axx, 47A35, 54H20, 60Fxx, 60G10]

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28D10 One-parameter continuous families of measure-preserving transformations

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28Exx Miscellaneous topics in measure theory

28E05 Nonstandard measure theory [see also 03H05, 26E35]

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Fuzzy Sets Theory and its Applications ★ Aggregation operators.
Fuzzy Theory and Technology ★ Fuzzy random variables.
Fuzzy random variables ★ Fuzzy random variables.
Liptovsky Jan ★ Aggregation operators.

28E15 Other connections with logic and set theory

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28E99 None of the above, but in this section

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Webb, William A. An algorithm for super envy-free cake division. **2001d:28010**

30–XX Functions of a complex variable {For analysis on manifolds, see 58–XX.}

30–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Krantz, Steven G. ★ Handbook of complex variables. (English summary) **2001a:30001**

30–01 Instructional exposition (textbooks, tutorial papers, etc.)

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30–02 Research exposition (monographs, survey articles)

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30–03 Historical (must also be assigned at least one classification number from Section 01)

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(Alexander, James Waddell) *see* **Gluchoff, Alan, 2001i:30001**
(Bernshtein, Sergeĭ Natanovich) *see* **Akhiezer, Naum Il'ich, 2001h:30001**
(Essén, Matts R.) *see* **Hayman, Walter, 2001c:30001**
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(Gonska, Heinz H.) *see* **Akhiezer, Naum Il'ich, 2001h:30001**
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(Ahlfors, Lars V.) *see* **Brooks, Robert Wolfe, 2001g:01038**
Andrievskiĭ, Vladimir V. Investigations of V. I. Belyĭ in constructive theory of functions of a complex variable. (English summary) **2001g:01035**
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30–04 Explicit machine computation and programs (not the theory of computation or programming)

Nakamura, Yayoi (*with* Tajima, Shin-ichi) An algorithm for computing the residue of a rational function via $\mathcal{D}$-modules. **2001b:30001**
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30–06 Proceedings, conferences, collections, etc.

(Ahlfors, Lars V.) *see* **Lectures in memory of Lars Ahlfors, 2001d:30001**
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(Zhuang, Qi Tai) *see* **Special Issue: Zhuang, Qi Tai**

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Birthday:
Krzyż, Jan Grzegorz ★ XII-th Conference on Analytic Functions. **2001c:30002**
Conference:
Analytic Functions ★ XII-th Conference on Analytic Functions. **2001c:30002**
Festschrift:
Krzyż, Jan Grzegorz ★ XII-th Conference on Analytic Functions. **2001c:30002**
Zhuang, Qi Tai ★ The Chuang special issue.
Haifa ★ Lectures in memory of Lars Ahlfors. **2001d:30001**
Lectures in memory of Lars Ahlfors ★ Lectures in memory of Lars Ahlfors. **2001d:30001**
Lublin ★ XII-th Conference on Analytic Functions. **2001c:30002**
Memorial Volume:
Ahlfors, Lars Valerian ★ Lectures in memory of Lars Ahlfors. **2001d:30001**
New extension of historical theorems for univalent function theory ★ Tan'yō kansū ron no rekishiteki teiri no shin tenkai ni tsuite. [New extension of historical theorems for univalent function theory] **2001h:30003**
Session:
Krzyż, Jan G. ★ XII-th Conference on Analytic Functions. **2001c:30002**
Special Issue:
Zhuang, Qi Tai ★ The Chuang special issue.

Items with secondary classifications in 30–06

(Alpay, Daniel) *see* **Reproducing kernels and their applications, 2001d:00046**
(Aulaskari, Rauno) *see* **Complex function spaces, 2001i:00028**
(Ball, Joseph A.) *see* **Reproducing kernels and their applications, 2001d:00046**
(Belyĭ, V. I.) *see* **Theory of the approximation of functions, 2001g:00028**
(Douady, Adrien) *see* **Complex geometry and dynamical systems, 2001a:37003**
(Essén, Matts R.) *see* **Complex analysis and differential equations, 2001a:00023**
(Flexor, Marguerite) *see* **Complex geometry and dynamical systems, 2001a:37003**
(Gilbert, Robert P.) *see* **Recent developments in complex analysis and computer algebra, 2001a:00034**
(Kajiwara, Joji) *see* **Recent developments in complex analysis and computer algebra, 2001a:00034**
(Khavin, Viktor Petrovich) *see* **Complex analysis, operators, and related topics, 2001b:00031**
(Kiselman, Christer O.) *see* **Complex analysis and differential equations, 2001a:00023**
(Nikol'skiĭ, Nikolai K.) *see* **Complex analysis, operators, and related topics, 2001b:00031**
(Ohsawa, Takeo) *see* **Reproducing kernels and their applications, 2001d:00046**
(Saitoh, Saburou) *see* **Reproducing kernels and their applications, 2001d:00046**
(Sentenac, Pierrette) *see* **Complex geometry and dynamical systems, 2001a:37003**
(Skrypnik, Igor V.) *see* **Theory of the approximation of functions, 2001g:00028**
(Tan, Lei[1]) *see* **Mandelbrot set, theme and variations, 2001a:37004**
(Vinogradov, Stanislav Aleksandrovich) *see* **Complex analysis, operators, and related topics, 2001b:00031**
(Vretblad, Anders) *see* **Complex analysis and differential equations, 2001a:00023**
(Xu, Yongzhi S.) *see* **Recent developments in complex analysis and computer algebra, 2001a:00034**
(Yoccoz, Jean-Christophe) *see* **Complex geometry and dynamical systems, 2001a:37003**

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Analytic function spaces and operators on them ★ Kaiseki kansū kūkan to sono ue no sayōso ron. (Japanese) [Analytic function spaces and operators on them] **2001e:46001**
Birthday:
Douady, Adrien ★ Géométrie complexe et systèmes dynamiques. [Complex geometry and dynamical systems] **2001a:37003**
Complex analysis and differential equations ★ Complex analysis and differential equations. **2001a:00023**
Complex analysis, operators, and related topics ★ Complex analysis, operators, and related topics. **2001b:00031**
Complex function spaces ★ Complex function spaces. **2001i:00028**
Complex geometry and dynamical systems ★ Géométrie complexe et systèmes dynamiques. [Complex geometry and dynamical systems] **2001a:37003**
Conference:
Complex Geometry and Dynamical Systems ★ Géométrie complexe et systèmes dynamiques. [Complex geometry and dynamical systems] **2001a:37003**
Congress:
International Society for Analysis, its Applications and Computations ★ Reproducing kernels and their applications. **2001d:00046**
ISAAC'97 ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
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Festschrift:
Douady, Adrien ★ Géométrie complexe et systèmes dynamiques. [Complex geometry and dynamical systems] **2001a:37003**
Essén, Matts R. ★ Complex analysis and differential equations. **2001a:00023**
Géométrie complexe et systèmes dynamiques ★ Géométrie complexe et systèmes dynamiques. [Complex geometry and dynamical systems] **2001a:37003**
Mandelbrot set, theme and variations ★ The Mandelbrot set, theme and variations. **2001a:37004**
Mekrijärvi ★ Complex function spaces. **2001i:00028**
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Belyĭ, Vladimir Ivanovich ★ Теория приближения функций. (Russian) [Theory of the approximation of functions] **2001g:00028**
Vinogradov, Stanislav Aleksandrovich ★ Complex analysis, operators, and related topics. **2001b:00031**
Newark, DE ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
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Recent developments in complex analysis and computer algebra ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
Reproducing kernels and their applications ★ Reproducing kernels and their applications. **2001d:00046**
Session:
Complex and Numerical Analysis ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
Reproducing Kernels and their Applications ★ Reproducing kernels and their applications. **2001d:00046**
Use of Symbolic Computation in Mathematics Education ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
Value Distribution Theory and Complex Domains ★ Recent developments in complex analysis and computer algebra. **2001a:00034**
Symposium:
Analytic Function Spaces and Operators on Them ★ Kaiseki kansū kūkan to sono ue no sayōso ron. (Japanese) [Analytic function spaces and operators on them] **2001e:46001**
Essén, Matts ★ Complex analysis and differential equations. **2001a:00023**
Theory of the approximation of functions ★ Теория приближения функций. (Russian) [Theory of the approximation of functions] **2001g:00028**
Uppsala ★ Complex analysis and differential equations. **2001a:00023**

30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Safonov, V. M. *see* **Trokhimchuk, Yurii Yu., 2001j:30001**
Trokhimchuk, Yurii Yu. Functions holomorphic on the boundary of a domain. (English and Polish summaries) **2001m:30001**
— (*with* Safonov, V. M.) On a criterion for the constancy of a complex function. (Russian. English and Ukrainian summaries) **2001j:30001**

Items with secondary classifications in 30A05

Gal, Sorin G. Approximation of (α) holomorphic functions by areolar polynomials of Bernstein-type. (English summary) **2001b:30052**
Lehman, Éric (*with* Ramadanov, Ivan-Pierre) A monogenic function generating the homogeneous harmonic polynomials. **2001a:30061**
Ramadanov, Ivan-Pierre *see* **Lehman, Éric, 2001a:30061**

30A10 Inequalities in the complex domain

Baernstein, Albert, II (*with* Montgomery-Smith, Stephen J.) Some conjectures about integral means of ∂f and $\overline{\partial} f$. **2001i:30002**
Gaziev, A. Zygmund type inequalities for double singular Cauchy-Stieltjes integral. (English summary) **2001b:30002**
Govil, N. K. (*with* Mohapatra, Ram Narayan) Markov and Bernstein type inequalities for polynomials. (English summary) **2001f:30001**
— On a theorem of Ankeny and Rivlin concerning maximum modulus of polynomials. (English summary) **2001a:30002**
Malinnikova, E. V. The theorem on three spheres for harmonic differential forms. (English summary) **2001f:30002**
Mohapatra, Ram Narayan *see* **Govil, N. K., 2001f:30001**
Montgomery-Smith, Stephen J. *see* **Baernstein, Albert, II, 2001i:30002**

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Gehring, Frederick W. Variations on a theorem of Fejér and Riesz. (English summary) **2001i:30048**
Govil, N. K. (*with* Nyuydinkong, Griffith; Tameru, Berhanu) Some L^p inequalities for the polar derivative of a polynomial. (English summary) **2001m:41007**
Jain, Vinay Kumar An improved inequality for k-th derivative of a polynomial. (English summary) **2001k:30010**
— Inequalities for a polynomial and its derivative. (English summary) **2001b:30006**
Lukashov, A. L. A Bernstein-type inequality for derivatives of rational functions on two segments. (Russian. Russian summary) **2001g:41022**
Milovanović, Gradimir V. (*with* Rassias, Themistocles M.) Distribution of zeros and inequalities for zeros of algebraic polynomials. (English summary) **2001i:26014**
Nyuydinkong, Griffith *see* **Govil, N. K. et al., 2001m:41007**
Rassias, Themistocles M. *see* **Milovanović, Gradimir V., 2001i:26014**
Selmi, Mohamed Ben Hédi Inequalities for Green functions in a Dini-Jordan domain in $\mathbf{R}^2$. (English summary) **2001f:26038**
Tameru, Berhanu *see* **Govil, N. K. et al., 2001m:41007**

30A99 None of the above, but in this section

Marinov, Marin Stefanov Quasimonogenic functions on a commutative algebra with divisors of zero. (English and Russian summaries) (*see* **2001a:00036**)
Miao, Shu Shi *see* **Yin, Guo Ju et al.**
Ruthenberg, Klaus Measurement of angles and elementary angle functions defined by conformal cross ratios. (English summary) **2001j:30002a**
— Measurement of angles and elementary angle functions defined by conformal cross ratios. (English summary) **2001j:30002b**
Segala, Fausto Stability of the convex Pompeiu sets. **2001b:30003**
Yin, Guo Ju (*with* Zhu, Jian Hua; Miao, Shu Shi) Circular wedge fuzzy complex numbers and their operations. (Chinese. English and Chinese summaries)
Zhu, Jian Hua *see* **Yin, Guo Ju et al.**

30Bxx Series expansions

30B10 Power series (including lacunary series)

Abanin, A. V. (*with* Semenova, G. A.) Geometric criteria for the expansion of analytic functions in Laurent-type series. (Russian. English and Russian summaries)
— (*with* Semenova, G. A.) On a generalization of the Laurent series. (Russian. Russian summary) **2001m:30002**
Belyĭ, V. I. (*with* Kravchuk, E. V.) Generalized Faber sets and some applications. (Russian. English summary) (*see* **2001g:00028**)
Brück, Rainer (*with* Render, Hermann) Invertibility of holomorphic functions with respect to the Hadamard product. (English summary) **2001e:30001**
Constantinescu, Gruia On certain generalised power series. (English summary) **2001f:30003**
Costakis, George (*with* Melas, Antonios) On the range of universal functions. (English summary) **2001e:30002**
— Some remarks on universal functions and Taylor series. (English summary) **2001g:30002**
Djakov, P. B. (*with* Ramanujan, M. S.) A remark on Bohr's theorem and its generalizations. (English summary) **2001k:30001**
Golightly, George O. Laurent series from entire functions. (English summary) **2001m:30003**
Kravchuk, E. V. *see* **Belyĭ, V. I., (2001g:00028)**
Litow, B. On Hadamard square roots of unity. **2001c:30003**
Luh, Wolfgang Summability of power series by nonregular matrices. (English summary) **2001i:30003**
Melas, Antonios *see* **Costakis, George, 2001e:30002**
Mukherjee, Samir Kumar Series and functions in complex analysis. (English summary)
Ostrovskiĭ, Iosif Vladimirovich (*with* Zheltukhina, N. A.) On power series having tails with multiply positive coefficients. **2001c:30004**
— On the zeros of tails of power series. **2001f:30004**
Ramanujan, M. S. *see* **Djakov, P. B., 2001k:30001**
Rao, Xin Guang The method of reciprocal power series for finding the minimum modulus zero points of analytic functions. (Chinese. English and Chinese summaries) **2001d:30002**
Render, Hermann *see* **Brück, Rainer, 2001e:30001**
Semenova, G. A. *see* **Abanin, A. V., 2001m:30002**
Shirokov, N. A. An example of a rapidly decreasing (p, A)-lacunary function. (Russian. English and Russian summaries) **2001k:30002**
Sun, Dao Chun *see* **Yang, Yan**
Todorov, Pavel G. Taylor series of the Pick function and the Loewner variation within the class S and applications. (English summary) **2001k:30003**
Yang, Yan (*with* Sun, Dao Chun) The growth of Taylor series and random Taylor series. (Chinese. English and Chinese summaries)
Zheltukhina, N. A. *see* **Ostrovskiĭ, Iosif Vladimirovich, 2001c:30004**

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Ben Cheikh, Youssèf Differential equations satisfied by the components with respect to the cyclic group of order n of some special functions. (English summary) **2001i:33005**

Boas, Harold P. Majorant series. (English summary) **2001j:32001**
— (*with* Khavinson, Dmitry) Vita: Friedrich Wilhelm Wiener. **2001g:01037**
Chyzhykov, I. E. *see* **Skaskiv, O. B., 2001k:30043**
Eilbeck, J. C. (*with* Ènol'skiĭ, V. Z.) Bilinear operators and the power series for the Weierstrass σ function. (English summary) **2001d:33024**
Ènol'skiĭ, V. Z. *see* **Eilbeck, J. C., 2001d:33024**
Gromov, V. P. Analogues of the Taylor expansion. (Russian. English and Russian summaries) **2001m:47034**
Kahane, Jean-Pierre Baire's category theorem and trigonometric series. **2001f:42012**
Khavinson, Dmitry *see* **Boas, Harold P., 2001g:01037**
Nowak, Krzysztof Jan Some elementary proofs of Puiseux's theorems. (English summary) **2001m:12015**
Render, Hermann (*with* Sauer, Andreas) Maximal domains of summability for holomorphic functions. (English summary) **2001d:30067**
Sauer, Andreas *see* **Render, Hermann, 2001d:30067**
Skaskiv, O. B. (*with* Chyzhykov, I. E.) The Nevanlinna characteristics and maximum modulus of gap power series. (English and Russian summaries) **2001k:30043**
(Wiener, Friedrich Wilhelm) *see* **Boas, Harold P., 2001g:01037**
Zhao, Feng Zhen The integrity of some infinite series. **2001h:11014**

30B20 Random power series

You, Xiu Ying Dependent convergence for lower side bivalent random Dirichlet series. (Chinese. English and Chinese summaries)

Items with secondary classifications in 30B20

Ding, Xiao Qing[1] Value distribution of a random analytic Dirichlet series of order zero. (English summary) **2001i:30032**
Gao, Fuchang A characterization of random Bloch functions. (English summary) **2001j:30028**
Tian, Fan Ji The growth of random Dirichlet series. I. (English summary) **2001k:30006**
Wan, Cheng Gao The growth and value distribution of random Dirichlet series in the right half plane. (Chinese. English and Chinese summaries) **2001i:30034**

30B30 Boundary behavior of power series, over-convergence

Gehlen, Wolfgang (*with* Luh, Wolfgang; Müller, Jürgen[3]) On the existence of O-universal functions. (English summary) **2001a:30003**
Luh, Wolfgang *see* **Gehlen, Wolfgang et al., 2001a:30003**
Müller, Jürgen[3] *see* **Gehlen, Wolfgang et al., 2001a:30003**

Items with secondary classifications in 30B30

Campos, L. M. B. C. On singularities and solutions of the extended hypergeometric differential equation. (English summary) **2001e:33001**
Kahane, Jean-Pierre (*with* Nestoridis, Vassili) Séries de Taylor et séries trigonométriques universelles au sens de Menchoff. (English and French summaries) [Universal Taylor series and universal trigonometric series in the sense of Menshov] **2001m:42007**
Lay, Wolfgang Difference equations of Poincaré-Perron type and central two-point connection problems. (English summary) **2001d:34147**
Lucht, Lutz G. (*with* Schmalmack, Anke) Polylogarithms and arithmetic function spaces. **2001i:11116**
Nestoridis, Vassili *see* **Kahane, Jean-Pierre, 2001m:42007**
Schmalmack, Anke *see* **Lucht, Lutz G., 2001i:11116**

30B40 Analytic continuation

Ali, Ismail (*with* Vũ Kim Tuấn) Application of basic hypergeometric series to stable analytic continuation. (English summary) **2001f:30005**
Ishankulov, T. On the possibility of generalized analytic continuation of functions, defined on a part of the boundary of the domain, into the domain. (Russian. Russian summary) **2001k:30004**
Kozma, Lidia Elena Sur un prolongement analytique. [On an analytic continuation]
Vessella, Sergio A continuous dependence result in the analytic continuation problem. (English summary) **2001k:30005**
Vũ Kim Tuấn *see* **Ali, Ismail, 2001f:30005**

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Atzmon, A. (*with* Eremenko, Alexandre; Sodin, Mikhail) Spectral inclusion and analytic continuation. **2001k:46076**
— (*with* Sodin, Mikhail) Completely indecomposable operators and a uniqueness theorem of Cartwright-Levinson type. (English summary) **2001c:47039a**
— (*with* Sodin, Mikhail) Addendum: "Completely indecomposable operators and a uniqueness theorem of Cartwright-Levinson type". **2001c:47039b**
Berland, Marcel (*with* Berland, Philippe) Compléments à des théorèmes de M. Blambert–R. Parvatham sur les singularités d'une fonction analytique définie par un élément E-Dirichlétien. (English and French summaries) [Complements to theorems of M. Blambert and R. Parvatham on the singularities of an analytic function defined by an E-Dirichletian element] **2001j:30003**
Berland, Philippe *see* **Berland, Marcel, 2001j:30003**
Constantinescu, Gruia On certain generalised power series. (English summary) **2001f:30003**
Eremenko, Alexandre *see* **Atzmon, A. et al., 2001k:46076**
Gustafsson, Björn (*with* Putinar, Mihai) Analytic continuation of Cauchy and exponential transforms. (English summary) (*see* **2001h:00019**)
Hoang Ngoc Chien A note on the support and the spectrum of a hyperfunction. (English summary)
Kawai, Takahiro Natural boundaries revisited through differential equations, infinite order or non-linear. (English summary) **2001h:34127**
Michalska, Malgorzata (*with* Prokhorov, Dmitriĭ Valentinovich; Szynal, Jan) The compositions of hyperbolic triangle mappings. (English summary) **2001m:30008**
Mioduchowski, A. *see* **Ru, C. Q. et al., 2001m:74006**
Mori, Masatake Analytic continuation and acceleration of convergence of series. (Japanese) (*see* **2001h:00019**)
Pavlov, A. I. Entire functions, analytic continuation and fractional parts of a linear function. (Russian. Russian summary) **2001a:30033**
Prokhorov, Dmitriĭ Valentinovich *see* **Michalska, Malgorzata et al., 2001m:30008**
Putinar, Mihai *see* **Gustafsson, Björn, (2001h:00019)**
Render, Hermann (*with* Sauer, Andreas) Maximal domains of summability for holomorphic functions. (English summary) **2001d:30067**
Ru, C. Q. (*with* Schiavone, P.; Mioduchowski, A.) Elastic fields in two jointed half-planes with an inclusion of arbitrary shape. (English summary) **2001m:74006**
Sauer, Andreas *see* **Render, Hermann, 2001d:30067**
Schiavone, P. *see* **Ru, C. Q. et al., 2001m:74006**
Shiba, Masakazu Analytic continuation beyond the ideal boundary. (*see* **2001h:00019**)
Sodin, Mikhail *see* **Atzmon, A. et al., 2001c:47039a; 2001c:47039b** *and* **2001k:46076**
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Ullrich, Peter[1] The Poincaré-Volterra theorem: from hyperelliptic integrals to manifolds with countable topology. **2001a:01035**

30B50 Dirichlet series and other series expansions, exponential series [see also 11M41, 42–XX]

Balasubramanian, G. Rearrangements of the coefficients of entire Dirichlet series. (English summary)
Balasubramanian, Ramachandran (*with* Ramachandra, Kanakanahalli) The proof that certain functions are entire. II. (English summary)
Berland, Marcel (*with* Berland, Philippe) Compléments à des théorèmes de M. Blambert–R. Parvatham sur les singularités d'une fonction analytique définie par un élément E-Dirichlétien. (English and French summaries) [Complements to theorems of M. Blambert and R. Parvatham on the singularities of an analytic function defined by an E-Dirichletian element] **2001j:30003**
Berland, Philippe *see* **Berland, Marcel, 2001j:30003**
Ding, Xiao Qing[1] (*with* Yu, Jia-Rong) Picard points of a random Dirichlet series. (English and French summaries) **2001f:30006**
Fllevich, Petro To the Sheremeta theorem concerning relations between the maximal term and the maximum modulus of entire Dirichlet series. (English and Russian summaries) **2001e:30003**
Gaisin, A. M. An estimate for the Dirichlet series with Fejér gaps on curves. (Russian) **2001d:30003**
Gao, Zong Sheng The Dirichlet series and the random Dirichlet series of infinite order. (Chinese. English and Chinese summaries) **2001b:30004**
Gong, Fang The natural boundary of random Dirichlet series. (Chinese. English and Chinese summaries) **2001g:30003**
Korobeinik, Yu. F. On the abscissas of convergence of Dirichlet series. (Russian. English and Russian summaries) **2001h:30004**
— (*with* Petin, D. V.) On the distribution of zeros of partial sums of a Dirichlet series near the abscissa of convergence. (Russian. English and Russian summaries)
Lê Hai Khôi Multipliers for Dirichlet series in the complex plane. (English summary) **2001m:30004**
Petin, D. V. *see* **Korobeinik, Yu. F.**
Ramachandra, Kanakanahalli *see* **Balasubramanian, Ramachandran**
Rastogi, Anupma On the maximum real part of an entire Dirichlet series of (R) order zero. (English summary)
Sheremeta, Myroslav M. On behaviour of the maximal term of Dirichlet series derivative. (English and Russian summaries) **2001e:30004**
— *see also* **Sumik, O. M.**
Skaskiv, O. B. On the central exponent of absolutely converging Dirichlet series. (Ukrainian. English summary)
— (*with* Trusevich, O. M.) On a Borel-type theorem for series similar to Taylor-Dirichlet series. (Ukrainian. English and Russian summaries) **2001d:30004**
Sumik, O. M. (*with* Sheremeta, Myroslav M.) Lower bounds for the maximal term of a Dirichlet series. (Russian)
Sun, Dao Chun Random Dirichlet series on the right half-plane. (Chinese. English and Chinese summaries) **2001b:30005**
Tian, Fan Ji On the distribution of the values of infinite order random Dirichlet series on the right half-plane. (Chinese. English and Chinese summaries) **2001g:30004**
— The growth of random Dirichlet series. I. (English summary) **2001k:30006**
— The growth of random Dirichlet series. II. (English and Chinese summaries) **2001k:30007**
Trusevich, O. M. *see* **Skaskiv, O. B., 2001d:30004**
You, Xiu Ying Lower side bitangent exponential series in compact topological spaces. (Chinese. English and Chinese summaries)
Yu, Jia-Rong *see* **Ding, Xiao Qing[1], 2001f:30006**

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Bhattacharya, D. K. (*with* Manna, Sasadhar) Two paranorm and the set of all entire Dirichlet series. (English summary) **2001d:46038**
Bourgain, Jean Harmonic analysis and combinatorics: how much may they contribute to each other? **2001c:42009**
Ding, Xiao Qing[1] Value distribution of a random analytic Dirichlet series of order zero. (English summary) **2001i:30032**
Kahane, Jean-Pierre Baire's category theorem and trigonometric series. **2001f:42012**
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Napalkov, V. V. (*with* Sapronova, G. A.) Series of exponentials in the space of sequences of finite order and type. (Russian) **2001i:30026**
Sapronova, G. A. *see* **Napalkov, V. V., 2001i:30026**
Wan, Cheng Gao The growth and value distribution of random Dirichlet series in the right half plane. (Chinese. English and Chinese summaries) **2001i:30034**
You, Xiu Ying Dependent convergence for lower side bivalent random Dirichlet series. (Chinese. English and Chinese summaries)

30B60 Completeness problems, closure of a system of functions

Alekseeva, E. N. On series in the system $\{f(\lambda_j z)\}$. (Russian. English and Russian summaries) **2001f:30007**

Khachatryan, I. O. On the completeness of the system of functions $\{z^{\lambda_n}\}$ on curves in the complex plane under weighted uniform approximation. (Russian. English, Russian and Ukrainian summaries) **2001h:30005**

Korobeĭnik, Yu. F. (*with* Sherstyukov, V. B.) On the absolute completeness of a system of powers in the space of analytic functions. (Russian. English and Russian summaries) **2001g:30005**

Paneva-Konovska, Jordanka Complete systems of Bessel and inversed Bessel polynomials in spaces of holomorphic functions. (English summary) **2001a:30004**

Popov, A. Yu. On the completeness of systems of exponentials with real exponents of a given upper density in the space of analytic functions. (Russian. Russian summary) **2001c:30005**

Sherstyukov, V. B. *see* **Korobeĭnik, Yu. F., 2001g:30005**

Items with secondary classifications in 30B60

Aizenberg, Lev (*with* Vidras, Alekos) On small complete sets of functions. (English summary) **2001g:32005**

Alekseeva, E. N. Analogues of a rational series in a locally convex space. (Russian. English and Russian summaries) **2001m:46003**

Danielyan, A. A. (*with* Saff, Edward B.) An extension of E. Bishop's localization theorem. (English summary) **2001m:41039**

Luh, Wolfgang (*with* Martirosyan, V. A.) On the growth of universal meromorphic functions. (English summary) **2001e:30052**

Martirosyan, V. A. *see* **Luh, Wolfgang, 2001e:30052**

Mazur, Tomasz The Bergman function, Gaussian measure, and Planck's constant. (English summary) **2001j:32008**

Rusev, Petʺr K. Complete systems of Laguerre polynomials with large parameter. **2001f:33014**

Saff, Edward B. *see* **Danielyan, A. A., 2001m:41039**

Vidras, Alekos *see* **Aizenberg, Lev, 2001g:32005**

30B70 Continued fractions [see also 11A55, 40A15]

Bodnar, D. Ī. Sur la convergence des fractions continues branchées avec des termes positifs. (French summary) [Convergence of branched continued fractions with positive terms]

Bondar, D. Ī. (*with* Dmitrishin, R. Ī.) On a multidimensional generalization of g-fractions. (Ukrainian. English summary) **2001a:30005**

Bracciali, C. F. (*with* McCabe, J. H.) Some extensions of M-fractions related to strong Stieltjes distributions. (English summary) **2001g:30006**

Dmitrishin, R. Ī. *see* **Bondar, D. Ī., 2001a:30005**

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30C10 Polynomials

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30C20 Conformal mappings of special domains

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30C25 Covering theorems in conformal mapping theory

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30C30 Numerical methods in conformal mapping theory [see also 65E05]

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30C35 General theory of conformal mappings

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30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination

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30D50 Blaschke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part

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30D55 H^p-classes

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30E15 Asymptotic representations in the complex domain

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30F60 Teichmüller theory [see also 32G15]

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30Gxx Generalized function theory

30G06 Non-Archimedean function theory [see also 12J25]; nonstandard function theory [see also 03H05]

Sreenivasulu, V. Non-Archimedean entire functions of bounded index. (English summary) **2001d:30083**

30G12 Finely holomorphic functions and topological function theory

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Znamenskiĭ, S. V. (*with* Znamenskaya, E. A.) Existence of analytic primitives on an arbitrary subset of the complex plane. (Russian) **2001c:30008**

30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)

Akhmedov, Saĭdamir Akhmedovich On the supremum of a functional for solutions, bounded on the boundary, of the Carleman equation that have singularities. (Russian. English and Uzbek summaries)
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Musaev, K. M. On boundary and extremal properties of conjugate classes of generalized analytic functions. (Russian. English and Azerbaijani summaries)
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— (*with* Gasanova, T. Kh.) The boundary value problem in the class of generalized analytic functions—jump problem. (English summary) **2001e:30088**
Niculescu, Constantin P. Applications of elliptic operator methods to C^∞-convergence problem.
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Aparicio, N. D. Elastic complex analysis and its applications in fracture mechanics. (English summary) **2001d:74007**
Baseilhac, Pascal (*with* Reynaud, Damien) Dual generalizations of sine-Gordon field theory and integrability submanifolds in parameter space. (English summary) **2001i:81246**
Coclici, Cristian A. (*with* Wendland, Wolfgang L.) On the treatment of the Kutta-Joukowski condition in transonic flow computations. (English summary) **2001b:76049**
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Dzhaiani, G. V. On boundary value problems for conjugate generalized harmonic functions. (English summary) **2001f:35103**
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Mandzhavidze, G. F. (*with* Akhalaya, G. Ya.) Boundary value problems of the theory of generalized analytic vectors. (English summary) **2001c:35183**
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Wang, Ming Hua Non-normal type Hilbert boundary value problems for bianalytic functions. (Chinese. English and Chinese summaries)
Wen, Guo Chun Complex analytic method for hyperbolic equations of second order. (English summary) **2001c:35132**
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30G25 Discrete analytic functions

Items with secondary classifications in 30G25

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Bobenko, A. I. *see* **Agafonov, S. I., 2001g:39042**
Jacob, Mercy K. Discrete conformal and quasiconformal mappings. (English summary) **2001i:30007**
Kats, Boris A. The inequalities for polynomials and integration over fractal arcs. (English summary) **2001m:26042**

30G30 Other generalizations of analytic functions (including abstract-valued functions)

Cristea, Mihai A generalization of the argument principle. (English summary) **2001d:30085**
Lemnete Ninulescu, Luminiţa On the Borel-Laplace transform. (English and Romanian summaries) **2001j:30040**
Li, Fa Chao *see* **Qiu, Ji Qing et al.**
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Zhao, Yu Song (*with* Xie, Chun Ping) The Schwarz problem for bianalytic functions. (Chinese. English and Chinese summaries) **2001d:30086**

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Ebrahimi, Mohammad (*with* Gerami, N.; Nekooei, R.) Preholomorphic sections on complex manifolds. (English summary) **2001h:32014**
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Jacob, Mercy K. Discrete conformal and quasiconformal mappings. (English summary) **2001i:30007**
Kadıoğlu, Ekrem On the ring of the holomorphic functions over the algebra. (English summary) **2001f:46079**
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Popescu, I. L. Représentation intégrale des fonctions quasianalytiques invariantes par rapport aux groupes discontinus et ses applications à la mécanique des fluides. (French summary) [Integral representation of quasianalytic functions that are invariant with respect to discontinuous groups and applications to fluid mechanics] **2001k:76009**

30G35 Functions of hypercomplex variables and generalized variables

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30G99 None of the above, but in this section

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Symposium:
Essén, Matts ★ Complex analysis and differential equations. **2001a:00023**
Uppsala ★ Complex analysis and differential equations. **2001a:00023**

31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

Aberra, Dawit On a generalized reflection law for functions satisfying the Helmholtz equation. (English summary) **2001b:31001**
Alessandrini, Giovanni (*with* Favaron, Alberto) Sharp stability estimates of harmonic continuation along lines. (English summary) **2001g:31001**
Azarin, Vladimir Construction of the maximal subharmonic minorant for functions of a special form. (English, Russian and Ukrainian summaries) **2001m:31002**
Cammaroto, Filippo[2] (*with* Chinni, A.) A Liouville-type theorem for harmonic functions on exterior domains. (English summary) **2001c:31001**
Chinni, A. *see* **Cammaroto, Filippo[2], 2001c:31001**
Essén, Matts R. *see* **Shakhverdyan, A. Yu. et al., 2001f:31002**
Favaron, Alberto *see* **Alessandrini, Giovanni, 2001g:31001**
Hansen, Wolfhard A Liouville property for spherical averages in the plane. (English summary) **2001k:31001**
Hovanessian, G. S. *see* **Shakhverdyan, A. Yu. et al., 2001f:31002**
Kondratyuk, A. A. (*with* Vasil'kiv, Ya. V.) Conjugate of subharmonic function. (English and Russian summaries) **2001f:31001**
Malyutin, K. G. Fourier series and δ-subharmonic functions. (Russian. English summary) (*see* **2001g:00028**)
Nakai, Mitsuru (*with* Tada, Toshimasa) Harmonic Liouville theorem for exterior domains. (English summary) **2001k:31002**
Pavlović, Miroslav On harmonic conjugates with exponential mean growth. **2001m:31003**
Popa, Eugen Semi-dynamical systems on algebraic structures. **2001m:31004**
Shakhverdyan, A. Yu. (*with* Essén, Matts R.; Hovanessian, G. S.) Fine topology and growth of small subharmonic and δ-subharmonic functions in the complex plane. (English summary) **2001f:31002**
Tada, Toshimasa *see* **Nakai, Mitsuru, 2001k:31002**
Vasil'kiv, Ya. V. *see* **Kondratyuk, A. A., 2001f:31001**

Items with secondary classifications in 31A05

Armitage, David H. (*with* Gardiner, Stephen J.) ★ Classical potential theory. (English summary) **2001m:31001**
Avetisyan, K. L. Fractional integration and integral representations in weighted classes of harmonic functions. (English and Russian summaries) **2001k:46051**
Bshouty, Daoud (*with* Hengartner, Walter; Naghibi-Beidokhti, M.) p-valent harmonic mappings with finite Blaschke dilatations. (English summary) **2001j:30016**
Chen, Huaihui (*with* Gauthier, P. M.; Hengartner, Walter) Bloch constants for planar harmonic mappings. (English summary) **2001b:30027**
Chernykh, N. I. *see* **Subbotin, Yu. N., 2001b:42057**
Dovgoshei, A. A. Orthogonal harmonic polynomials in simply connected domains on the plane. (Russian. English summary) **2001h:30006**
Gardiner, Stephen J. *see* **Armitage, David H., 2001m:31001**
Gauthier, P. M. *see* **Chen, Huaihui et al., 2001b:30027**
Hengartner, Walter *see* **Chen, Huaihui et al., 2001b:30027** *and* **Bshouty, Daoud et al., 2001j:30016**
Korenblum, Boris (*with* Racquet, John C.) Concurrence of uniqueness and boundedness conditions for regular sequences. (English summary) **2001i:31001**
Lusky, Wolfgang On the Fourier series of unbounded harmonic functions. (English summary) **2001c:46047**
Mair, Bernard A. A mathematical model incorporating the effects of detector width in 2D PET. (English summary) **2001b:92014**
Meshveliani, Z. (*with* Paatashvili, V.) On Smirnov classes of harmonic functions, and the Dirichlet problem. (English and Georgian summaries) **2001m:30045**
Naghibi-Beidokhti, M. *see* **Bshouty, Daoud et al., 2001j:30016**
Osiptsev, M. A. A coefficient estimate for harmonic automorphisms of the circle. (Russian) **2001a:30018**
Öztürk, Metin Univalent harmonic mappings onto half planes. (English summary) **2001f:30015**
Paatashvili, V. *see* **Meshveliani, Z., 2001m:30045**
Pedersen, Henrik L. Entire functions and logarithmic sums over nonsymmetric sets of the real line. (English summary) **2001f:30034**
Pritsker, Igor E. Chebyshev polynomials with integer coefficients. (English summary) **2001h:30007**
Racquet, John C. *see* **Korenblum, Boris, 2001i:31001**
Silverman, Herb (*with* Silvia, E. M.) Subclasses of harmonic univalent functions. (English summary) **2001k:30024**
Silvia, E. M. *see* **Silverman, Herb, 2001k:30024**
Subbotin, Yu. N. (*with* Chernykh, N. I.) Wavelets in spaces of harmonic functions. (Russian. Russian summary) **2001b:42057**

31A10 Integral representations, integral operators, integral equations methods

Korenblum, Boris (*with* Racquet, John C.) Concurrence of uniqueness and boundedness conditions for regular sequences. (English summary) **2001i:31001**
Racquet, John C. *see* **Korenblum, Boris, 2001i:31001**

Items with secondary classifications in 31A10

Bell, Steven R. A Riemann surface attached to domains in the plane and complexity in potential theory. (English summary) **2001m:30009**
Bube, Kenneth P. *see* **Wiegmann, Andreas, 2001b:65117**
Orevkov, Stepan Yu. Potential at infinity of a polynomial image of the disk. (Russian) **2001d:30071**
Wiegmann, Andreas (*with* Bube, Kenneth P.) The explicit-jump immersed interface method: finite difference methods for PDEs with piecewise smooth solutions. (English summary) **2001b:65117**

31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

Betsakos, Dimitrios On the equilibrium measure and the capacity of certain condensers. (English summary) **2001i:31002**
Buyarov, V. S. (*with* Rakhmanov, E. A.) On families of measures that are balanced in the external field on the real axis. (Russian. Russian summary) **2001b:31002**
David, Guy (*with* Mattila, Pertti) Removable sets for Lipschitz harmonic functions in the plane. **2001h:31001**
Gasanov, S. G. (*with* Seifullaev, R. K.) Local properties of a double layer logarithmic potential. (Russian. English and Azerbaijani summaries)
Götz, Mario (*with* Saff, Edward B.) Potential and discrepancy estimates for weighted extremal points. (English summary) **2001i:31003**
Kuijlaars, A. B. J. (*with* McLaughlin, K. T.-R.) Generic behavior of the density of states in random matrix theory and equilibrium problems in the presence of real analytic external fields. (English summary) **2001f:31003**
Li, Gong Bao (*with* Martio, Olli) Stability of harmonic measures. (English summary) **2001e:31001**
Martio, Olli *see* **Li, Gong Bao, 2001e:31001**
Mattila, Pertti *see* **David, Guy, 2001h:31001**
McLaughlin, K. T.-R. *see* **Kuijlaars, A. B. J., 2001f:31003**
Rakhmanov, E. A. *see* **Buyarov, V. S., 2001b:31002**
Saff, Edward B. *see* **Götz, Mario, 2001i:31003**
Seifullaev, R. K. *see* **Gasanov, S. G.**

Items with secondary classifications in 31A15

Beckermann, Bernhard (*with* Saff, Edward B.) The sensitivity of least squares polynomial approximation. (English summary) **2001d:41001**
Betsakos, Dimitrios (*with* Solynin, A. Yu.) Extensions of Beurling's shove theorem for harmonic measure. (English summary) **2001d:30034**
Carleson, Lennart (*with* Makarov, Nikolai G.) Aggregation in the plane and Loewner's equation. (English summary) **2001m:82079**
Dovgoshei, A. A. Orthogonal harmonic polynomials in simply connected domains on the plane. (Russian. English summary) **2001h:30006**
Dubinin, V. N. (*with* Kim, V. Yu.) Reduced moduli and inequalities for polynomials. (Russian. Russian summary) **2001k:30009**
Elderman, V. Yu. Metric properties of exceptional sets. **2001g:31004**
Essén, Matts R. *see* **Shakhverdyan, A. Yu. et al., 2001f:31002**
Gehring, Frederick W. Variations on a theorem of Fejér and Riesz. (English summary) **2001i:30048**
Hovanessian, G. S. *see* **Shakhverdyan, A. Yu. et al., 2001f:31002**
Kenig, Carlos E. (*with* Toro, Tatiana) Free boundary regularity for harmonic measures and Poisson kernels. **2001d:31004**
Kim, V. Yu. *see* **Dubinin, V. N., 2001k:30009**
Krutitskiĭ, P. A. The jump problem for the Laplace equation. (English summary) **2001m:35066**
Kuijlaars, A. B. J. Which eigenvalues are found by the Lanczos method? (English summary) **2001g:65042**
Makarov, Nikolai G. *see* **Carleson, Lennart, 2001m:82079**
Nakai, Mitsuru Dirichlet finite harmonic measures on topological balls. (English summary) **2001i:31006**
Pritsker, Igor E. Chebyshev polynomials with integer coefficients. (English summary) **2001h:30007**
Rusishvili, Z. On one problem of mass distribution according to volume density. (English summary)
Saff, Edward B. *see* **Beckermann, Bernhard, 2001d:41001**
Shakhverdyan, A. Yu. (*with* Essén, Matts R.; Hovanessian, G. S.) Fine topology and growth of small subharmonic and δ-subharmonic functions in the complex plane. (English summary) **2001f:31002**
Solynin, A. Yu. *see* **Betsakos, Dimitrios, 2001d:30034**
Toro, Tatiana *see* **Kenig, Carlos E., 2001d:31004**
Wilczek, Katarzyna Estimations of the harmonic metric. (English summary)

31A20 Boundary behavior (theorems of Fatou type, etc.)

Betancor, Jorge J. (*with* Fariña Gil, Juan Carlos; Llorente, J. G.) Axiomatic potential theory, asymptotic values and elliptic differential operators. (English summary) **2001f:31004**
Carmona, Juan José (*with* Donaire, Juan J.) The converse of Fatou's theorem for Zygmund measures. (English summary) **2001m:31005**
Donaire, Juan J. *see* **Carmona, Juan José, 2001m:31005**
Fariña Gil, Juan Carlos *see* **Betancor, Jorge J. et al., 2001f:31004**
Llorente, J. G. *see* **Betancor, Jorge J. et al., 2001f:31004**
Okropiridze, M. Radial limits of the partial derivatives of the Poisson spherical integral. (English summary)
Wu, Jiong Qi A study of boundary limits in potential theory. (Chinese. English and Chinese summaries)

Items with secondary classifications in 31A20

Besov, K. O. On the existence of interference between components of biharmonic functions. (Russian) **2001g:31002**
Dont, Miroslav A note on the parabolic variation. (English summary) **2001i:31004**
O'Neill, Michael D. (*with* Thurman, Robert E.) McMillan's area problem. **2001m:30037**
Thurman, Robert E. *see* **O'Neill, Michael D., 2001m:30037**

31A25 Boundary value and inverse problems

Dont, Miroslav A heat approximation. (English summary) **2001a:31001**
— A note on the parabolic variation. (English summary) **2001i:31004**
Laubin, Pascal On the boundedness and invertibility of boundary potentials in Lipschitz domains. (*see* **2001f:35006**)
Li, Yu Cheng[2] The solution of a system of equations and the boundary value problem for it. (Chinese. English and Chinese summaries) **2001d:31001**
Rusishvili, Z. Equivalence in the inverse problem of the potential theory. (English summary)
— On mass equivalent redistribution in the Ω domain. (English summary)
Sergeev, A. I. Representation and normality theorems for solutions of equations of generalized axially symmetric potential. (English summary)
Symeonidis, Elevtherios The Poisson integral for a disk in the hyperbolic plane. (English summary) **2001e:31002**
Tediashvili, Z. On the uniqueness of domains in the inverse problems of the potential theory. (English summary) **2001m:31006**
Witte, Jörg A reflection principle and its applications. (English summary) **2001e:31003**

Items with secondary classifications in 31A25

Chamberland, Marc (*with* Siegel, David) Polynomial solutions to Dirichlet problems. (English summary) **2001c:35045**
Hansen, Wolfhard A Liouville property for spherical averages in the plane. (English summary) **2001k:31001**
Karp, Lavi (*with* Shahgholian, Henrik) Regularity of a free boundary problem. (English summary) **2001f:35444**
Khatiashvili, N. The inversion formula of the Cauchy integral taken over a union of a countable number of segments. (English summary)
Krutitskiĭ, P. A. The skew derivative problem for the Helmholtz equation outside cuts in a plane. (English and Italian summaries) **2001g:35049**
Shahgholian, Henrik *see* **Karp, Lavi, 2001f:35444**
Siegel, David *see* **Chamberland, Marc, 2001c:35045**

31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

Aberra, Dawit (*with* Savina, T. V.) The Schwarz reflection principle for polyharmonic functions in $\mathbf{R}^2$. (English summary) **2001a:31002**
Besov, K. O. On the existence of interference between components of biharmonic functions. (Russian) **2001g:31002**
Rusishvili, Z. On one problem of mass distribution according to volume density. (English summary)
Savina, T. V. *see* **Aberra, Dawit, 2001a:31002**

Items with secondary classifications in 31A30

Li, Yu Cheng[2] The solution of a system of equations and the boundary value problem for it. (Chinese. English and Chinese summaries) **2001d:31001**
Rafatov, R. Ramiz (*with* Yilmazer, Resat) On the solution of equation $\Delta^n u = f(r, \varphi)$. (English summary)
Yilmazer, Resat *see* **Rafatov, R. Ramiz**

31A35 Connections with differential equations

Aikawa, Hiroaki Norm estimate of the Green operator and its application. **2001b:31003**

Items with secondary classifications in 31A35

Aberra, Dawit On a generalized reflection law for functions satisfying the Helmholtz equation. (English summary) **2001b:31001**
Selmi, Mohamed Ben Hédi Inequalities for Green functions in a Dini-Jordan domain in $\mathbf{R}^2$. (English summary) **2001f:26038**
Tao, Jicheng On the BVPs of elliptic system (E_1). (English summary) **2001i:35076**

31A99 None of the above, but in this section

Dragnev, P. D. (*with* Saff, Edward B.) A problem in potential theory and zero asymptotics of Krawtchouk polynomials. (English summary) **2001h:31002**
Saff, Edward B. *see* **Dragnev, P. D., 2001h:31002**

Items with secondary classifications in 31A99

Ash, J. Marshall Uniqueness for spherically convergent multiple trigonometric series. (English summary) **2001f:42014**
Bell, Steven R. The fundamental role of the Szegő kernel in potential theory and complex analysis. (English summary) **2001i:30008**
Skiba, N. I. *see* **Zakharyuta, V. P., 2001g:41037**
Totik, Vilmos Asymptotics for Christoffel functions with varying weights. (English summary) **2001m:42050**
Zakharyuta, V. P. (*with* Skiba, N. I.) Bernstein's theorem for harmonic functions. (Russian) **2001g:41037**

31Bxx Higher-dimensional theory

31B05 Harmonic, subharmonic, superharmonic functions

Agranovsky, Mark L. (*with* Krasnov, Yakov) Quadratic divisors of harmonic polynomials in $\mathbf{R}^n$. (English summary) **2001k:31003**
Aikawa, Hiroaki (*with* Gardiner, Stephen J.) Evaluation of superharmonic functions using limits along lines. **2001b:31004**
— Boundary Harnack principle and Martin boundary for a uniform domain. (English summary) **2001m:31007**
Armitage, David H. Growth and decay of subharmonic functions on affine sets. (English summary) **2001d:31002**
— Dense vector spaces of universal harmonic functions. (English summary) **2001k:31004**
— (*with* Gardiner, Stephen J.) Best one-sided L^1-approximation by harmonic and subharmonic functions. (English summary) **2001m:31008**
— (*with* Gardiner, Stephen J.; Haußmann, Werner; Rogge, Lothar) Incomplete lattice sets that control the behaviour of entire harmonic functions. (English summary) **2001i:31005**
— The Pompeiu property on the sphere. (English summary) **2001c:31002**
Astakhov, A. T. Harmonic functions that vanish on cones: an existence criterion. (Russian. Russian summary) **2001c:31003**
Bañuelos, Rodrigo (*with* Moore, Charles N.[2]) ★ Probabilistic behavior of harmonic functions. (English summary) **2001j:31003**
Benyaiche, Allami (*with* Boukricha, Abderrahman) Ordre de Nevanlinna des fonctions sousharmoniques continues en une singularité isolée. (French summary) [Nevanlinna order of continuous subharmonic functions at an isolated singularity] **2001k:31005**
Blasco, Oscar (*with* Pérez-Esteva, Salvador) L^p continuity of projectors of weighted harmonic Bergman spaces. (English summary) **2001g:31003**
Bonilla, A. "Counterexamples" to the harmonic Liouville theorem and harmonic functions with zero nontangential limits. (English summary) **2001d:31003**
Boukricha, Abderrahman *see* **Benyaiche, Allami, 2001k:31005**
Choe, Boo Rim (*with* Koo, Hyungwoon; Yi, HeungSu) Bergman norm estimates of Poisson integrals. (English summary) **2001k:31006**
Essén, Matts R. (*with* Gardiner, Stephen J.) Limits along parallel lines and the classical fine topology. **2001c:31004**
Gardiner, Stephen J. *see* **Aikawa, Hiroaki, 2001b:31004; Essén, Matts R., 2001c:31004; Armitage, David H. et al., 2001i:31005** *and* **2001m:31008**
Hasson, Maurice Harmonicity of functions satisfying a weak form of the mean value property. (English summary) **2001m:31009**
Haußmann, Werner *see* **Armitage, David H. et al., 2001i:31005**

Hécart, Jean-Marc On Zahariuta's extremal function for harmonic functions. (English summary) **2001m:31010**
— Ouverts d'harmonicité pour les fonctions séparément harmoniques. (English and French summaries) [Harmonicity domains for separately harmonic functions] **2001k:31007**
Iwasaki, Katsunori Recent progress in polyhedral harmonics. (English summary) **2001b:31005**
— Polytopes, invariants and harmonic functions. (English summary) (*see* **2001f:55001**)
— Recent progress in polyhedral harmonics. (English summary) **2001e:31004**
Jevtić, M. (*with* Pavlović, Miroslav) Harmonic Bergman functions on the unit ball in $\mathbf{R}^n$. (English summary) **2001e:31005**
Kinnunen, Juha (*with* Martio, Olli) Maximal operator and superharmonicity. (English summary) **2001f:31005**
Koo, Hyungwoon *see* **Choe, Boo Rim et al., 2001k:31006**
Krasnov, Yakov *see* **Agranovsky, Mark L., 2001k:31003**
Laugesen, Richard Snyder Injectivity can fail for higher-dimensional harmonic extensions. (English summary) **2001a:31003**
Lenkhorova, I. A. (*with* Maĭmeskul, V. V.) Harmonic approximation in $\mathbf{R}^3$ on compact sets with zero exterior angles. (Russian. English summary) (*see* **2001g:00028**)
Li, Fu Xing Uniqueness theorems for harmonic functions of several variables. (Chinese. English and Chinese summaries)
Maĭmeskul, V. V. *see* **Lenkhorova, I. A., (2001g:00028)**
Martio, Olli *see* **Kinnunen, Juha, 2001f:31005**
Moore, Charles N.[2] *see* **Bañuelos, Rodrigo, 2001j:31003**
Nakai, Mitsuru Dirichlet finite harmonic measures on topological balls. (English summary) **2001i:31006**
Netuka, Ivan Separation properties involving harmonic functions. **2001i:31007**
Nguyen Thanh Van Fonctions séparément harmoniques, un théorème de type Terada. (English and French summaries) [A Terada-type theorem for separately harmonic functions] **2001e:31006**
O'Neill, Michael D. Vertical variation of harmonic functions in upper half-spaces. (English summary) **2001k:31008**
Pavlović, Miroslav *see* **Jevtić, M., 2001e:31005**
Pérez-Esteva, Salvador *see* **Blasco, Oscar, 2001g:31003**
Rogge, Lothar *see* **Armitage, David H. et al., 2001i:31005**
Skiba, N. I. (*with* Zakharyuta, V. P.) Asymptotics of Kolmogorov diameters for some classes of harmonic functions on spheroids. (English summary) **2001a:31004**
Srivastava, G. S. On the coefficients of entire harmonic functions in $\mathbf{R}^3$. (English summary)
Topuriya, S. B. The generalized Laplace operator on a sphere and summation of differentiated Fourier-Laplace series using the Abel's method. (English summary)
Volchkov, Vit. V. A local two-radii theorem for $\mathcal{M}$-harmonic functions. (Russian)
Yi, HeungSu *see* **Choe, Boo Rim et al., 2001k:31006**
Zakharyuta, V. P. *see* **Skiba, N. I., 2001a:31004**

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Progress in Mathematics *see* **Bañuelos, Rodrigo, 2001j:31003**

Items with secondary classifications in 31B05

Aberra, Dawit On a generalized reflection law for functions satisfying the Helmholtz equation. (English summary) **2001b:31001**
Arcozzi, Nicola L^p estimates for systems of conjugate harmonic functions. (English summary) **2001m:30058**
Armitage, David H. (*with* Gardiner, Stephen J.) ★ Classical potential theory. (English summary) **2001m:31001**
Bañuelos, Rodrigo (*with* Wang, Gang[2]) Davis's inequality for orthogonal martingales under differential subordination. **2001g:60100**
Bogdan, Krzysztof Representation of α-harmonic functions in Lipschitz domains. (English summary) **2001a:31011**
Burkholder, Donald L. Some extremal problems in martingale theory and harmonic analysis. **2001g:60098**
Gardiner, Stephen J. *see* **Armitage, David H., 2001m:31001**
GowriSankaran, Kohur (*with* Nersesyan, Ashot A.) Superharmonic tangential approximation on long islands. (English summary) **2001b:31010**
Janssen, Klaus On the Choquet charge of δ-superharmonic functions. (English summary) **2001f:31017**
Krasnov, Yakov Symmetries of Cauchy-Riemann-Fueter equation. (English summary) **2001e:30090**
Lee, Jaesung The Berezin operator on the invariant L^p space in the ball. (English summary) **2001i:47042**
Li, Xing-min (*with* Peng, Li Zhong) On Stein-Weiss conjugate harmonic function and octonion analytic function. (English summary) **2001m:30061**
Nersesyan, Ashot A. *see* **GowriSankaran, Kohur, 2001b:31010**
Ou, Biao A uniqueness theorem for harmonic functions on the upper-half plane. (English summary) **2001k:35045**
Peng, Li Zhong *see* **Li, Xing-min, 2001m:30061**
Štěpničková, Libuše Pointwise and locally uniform convergence of holomorphic and harmonic functions. (English summary) **2001e:31021**
Verbitskiĭ, I. Ė. A dimension-free Carleson measure inequality. (English summary) **2001i:42032**
Wang, Gang[2] *see* **Bañuelos, Rodrigo, 2001g:60100**

31B10 Integral representations, integral operators, integral equations methods

Al-Khaled, Kamel Integral representation of bounded and absolutely integrable functions. (English summary)
Cheng, Hongwei[1] On the method of images for systems of closely spaced conducting spheres. (English summary) **2001m:31011**
Cuny, Christophe Fonctions harmoniques bornées sur certains groupes de Lie. (French summary) [Bounded harmonic functions on certain Lie groups] **2001i:31008**
Hogan, J. A. (*with* Li, Chun[2]; McIntosh, Alan G. R.; Zhang, Ke Wei[1]) Global higher integrability of Jacobians on bounded domains. (English and French summaries) **2001h:31003**
Li, Chun[2] *see* **Hogan, J. A. et al., 2001h:31003**
McIntosh, Alan G. R. *see* **Hogan, J. A. et al., 2001h:31003**
Nakamura, Gen[1] (*with* Saitoh, Saburou; Syarif, Admi) Representations and harmonic extension formulas of harmonic functions on half spaces. (English summary) **2001e:31007**
Popescu, Emil[2] A note on Feller semigroups. (English summary) **2001k:31009**
Saitoh, Saburou *see* **Nakamura, Gen**[1] **et al., 2001e:31007**
Sellier, A. Asymptotic solution of boundary integral equations. **2001b:31006**
Syarif, Admi *see* **Nakamura, Gen**[1] **et al., 2001e:31007**
Volchkov, Vit. V. On functions with zero integrals over ellipsoids. (Russian)
Zhang, Ke Wei[1] *see* **Hogan, J. A. et al., 2001h:31003**

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Choe, Boo Rim (*with* Koo, Hyungwoon; Yi, HeungSu) Bergman norm estimates of Poisson integrals. (English summary) **2001k:31006**
Dzhabrailov, A. D. The method of integral representation in the theory of spaces of functions of several groups of variables. **2001g:46071**
Ibenmoulоud, Samira (*with* Sbai, Mohamed) Poisson transform on $\mathbf{H}^3$. (English summary) **2001j:42013**
Kähler, Uwe On a direct decomposition of the space $\mathscr{L}_p(\Omega)$. (English summary) **2001e:46057**
Kinnunen, Juha (*with* Martio, Olli) Maximal operator and superharmonicity. (English summary) **2001f:31005**
Koo, Hyungwoon *see* **Choe, Boo Rim et al., 2001k:31006**
Martio, Olli *see* **Kinnunen, Juha, 2001f:31005**
Maz'ya, Vladimir G. (*with* Shaposhnikova, Tat'yana) Pointwise interpolation inequalities for Riesz and Bessel potentials. (English summary) **2001f:46052**
Nogin, Vladimir A. (*with* Sukhinin, E. V.) Function spaces connected with Klein-Gordon integral transforms. (English summary) **2001d:47078**
Ranošová, Jarmila Sets of determination for parabolic functions on a slab with respect to more general functions. (English summary) **2001e:35079**
Sbai, Mohamed *see* **Ibenmoulоud, Samira, 2001j:42013**
Shaposhnikova, Tat'yana *see* **Maz'ya, Vladimir G., 2001f:46052**
Skrzypczak, Leszek Remarks on twisted product in Besov spaces. **2001e:42031**
Sukhinin, E. V. *see* **Nogin, Vladimir A., 2001d:47078**
Yi, HeungSu *see* **Choe, Boo Rim et al., 2001k:31006**
Zhang, Ping-wen On the well-posedness of 3-D water wave with surface tension. (English summary) **2001j:76020**

31B15 Potentials and capacities, extremal length

Betsakos, Dimitrios On conformal capacity and Teichmüller's modulus problem in space. (English summary) **2001f:31006**
Divnić, Tomica (*with* Đurić, Zlata) A generalization of the Riesz potential. (English summary)
Đurić, Zlata *see* **Divnić, Tomica**
Eiderman, V. Ya. Metric properties of exceptional sets. **2001g:31004**
Gasanov, D. D. The Riesz B_n-potential in the spaces $\Gamma^*_{p\theta,\gamma}(\mathbf{R}^n_+, \varphi)$. (Russian. English and Azerbaijani summaries)
Götz, Mario A discrepancy theorem in $\mathbf{R}^d$, $d \geq 3$. (English summary) **2001m:31012**
Hansen, Wolfhard Potentials with given oscillations. (English summary) **2001j:31004**
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31B20 Boundary value and inverse problems

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31B25 Boundary behavior

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Kytmanov, A. M. (*with* Tsikh, I. A.) Harmonic representation of hyperfunctions defined on a hypersurface. (Russian) 2001a:32008
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31B30 Biharmonic and polyharmonic equations and functions

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31B35 Connections with differential equations

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31B99 None of the above, but in this section

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Kurokawa, Takahide On relations between Bessel potential spaces and Riesz potential spaces. (English summary) **2001e:46059**

31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

Ancona, Alano (*with* Chevallier, Nicolas) Sur la convergence radiale des potentiels associés à l'équation de Helmholtz. (English and French summaries) [Radial convergence of potentials associated with the Helmholtz equation] **2001i:31012**
Chevallier, Nicolas *see* **Ancona, Alano, 2001i:31012**
Kaimanovich, Vadim A. A discrete time Harnack inequality and its applications. **2001m:31016**
Lee, Yong Hah Rough isometry and Dirichlet finite harmonic functions on Riemannian manifolds. (English summary) **2001e:31012**
Mengotti, G. Approximation and uniqueness for $\Delta_{\alpha,\beta}$-harmonic functions. (English summary) **2001m:31017**
Mukherjee, Samir Kumar A new fundamental study on potential functions and their applications. (English summary)
Riihentaus, Juhani A generalized mean value inequality for subharmonic functions. (English summary)
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Bogdan, Krzysztof (*with* Byczkowski, Tomasz) Probabilistic proof of boundary Harnack principle for α-harmonic functions. (English summary) **2001a:60089**
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Holopainen, Ilkka A sharp L^q-Liouville theorem for p-harmonic functions. (English summary) **2001k:31012**
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Kim, Seok Woo (*with* Lee, Yong Hah) Polynomial growth harmonic functions on connected sums of complete Riemannian manifolds. (English summary) **2001h:53050**
Lee, Yong Hah *see* **Kim, Seok Woo, 2001h:53050**
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Li, Peter (*with* Wang, Jiaping) Counting massive sets and dimensions of harmonic functions. **2001k:53063**
Maki, N. *see* **Amano, Kaname et al., 2001m:65039**
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Wang, Jiaping *see* **Li, Peter, 2001k:53063**

31C10 Pluriharmonic and plurisubharmonic functions [see also 32U05]

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Coman, Dan Certain classes of pluricomplex Green functions on $\mathbf{C}^n$. (English summary) **2001i:32052**
Hécart, Jean-Marc Invariance de certaines conditions polynomiales pluriharmoniques par rapport aux applications holomorphes. (English and French summaries) [Invariance of certain pluriharmonic polynomial conditions under holomorphic mappings] **2001b:32069**
Kiselman, Christer O. Plurisubharmonic functions and potential theory in several complex variables. (English and Esperanto summaries) **2001j:32034**
Meise, Reinhold *see* **Braun, Rüdiger W. et al., 2001b:32068**
Perotti, Alessandro Some applications of the trace condition for pluriharmonic functions in $\mathbf{C}^n$. (English summary) **2001k:32056**
Poletsky, Evgeny A. Disk envelopes of functions. II. (English summary) **2001c:32017**
Siciak, Józef Wiener's type sufficient conditions for regularity in $\mathbf{C}^N$. **2001g:32080**
Taylor, B. A. *see* **Braun, Rüdiger W. et al., 2001b:32068**

31C12 Potential theory on Riemannian manifolds [see also 53C20; for Hodge theory, see 58A14]

Holopainen, Ilkka A sharp L^q-Liouville theorem for p-harmonic functions. (English summary) **2001k:31012**
Masaoka, Hiroaki *see* **Segawa, Shigeo, (2001e:46001)**
Mitrea, Dorina (*with* Mitrea, Marius) Higher degree layer potentials for non-smooth domains with arbitrary topology. (English summary) **2001k:31013**
Mitrea, Marius *see* **Mitrea, Dorina, 2001k:31013**
Pujar, S. S. Polyharmonic functions in Riemannian manifolds with boundary. **2001c:31005**
Segawa, Shigeo (*with* Masaoka, Hiroaki) Bounded harmonic functions on unlimited covering surfaces. (*see* **2001e:46001**)
Troyanov, Marc Parabolicity of manifolds. (English summary) **2001e:31013**
Weit, Yitzhak On Furstenberg's characterization of harmonic functions on symmetric spaces. (English summary) **2001m:31019**

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Holopainen, Ilkka Harmonic functions and volume growth of fingerless ends. (English summary) **2001m:58073**
Jin, Naondo (*with* Masaoka, Hiroaki; Segawa, Shigeo) Kuramochi boundary of unlimited covering surfaces. (English summary) **2001g:30030**
Kim, Seok Woo (*with* Lee, Yong Hah) Nonnegative solutions of an elliptic equation and Harnack ends of Riemannian manifolds. (English summary) **2001k:58035**
— (*with* Lee, Yong Hah) Polynomial growth harmonic functions on connected sums of complete Riemannian manifolds. (English summary) **2001h:53050**
Lee, Yong Hah Rough isometry and energy finite solutions of elliptic equations on Riemannian manifolds. (English summary) **2001k:53062**
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Li, Peter (*with* Wang, Jiaping) Mean value inequalities. **2001e:58032**
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Malinnikova, E. V. The theorem on three spheres for harmonic differential forms. (English summary) **2001f:30002**
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31C15 Potentials and capacities

Aissaoui, Noureddine Some developments of strongly nonlinear potential theory. (English summary) **2001f:31011**
Bucur, Dorin (*with* Henrot, Antoine) Stability for the Dirichlet problem under continuous Steiner symmetrization. (English summary) **2001f:31012**
Cascante, Carme (*with* Ortega, Joaquín M.; Verbitskiĭ, I. Ė.) Trace inequalities of Sobolev type in the upper triangle case. **2001a:31008**
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Mitsis, T. A generalization of a result due to Havin and Mazýa. (English summary) **2001g:31007**
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Zorii, N. V. Extremal problems of potential theory in locally compact spaces. (Russian. Russian summary) **2001g:31008**
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Armitage, David H. (*with* Gardiner, Stephen J.) ★ Classical potential theory. (English summary) **2001m:31001**
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Bloom, Thomas (*with* Calvi, Jean-Paul) On the multivariate transfinite diameter. (English summary) **2001b:32067**
Boboc, Nicu *see* **Beznea, Lucian, 2001h:60131**
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Davies, E. Brian A review of Hardy inequalities. (English summary) **2001f:35166**
Duren, Peter (*with* Pfaltzgraff, John A.) Hyperbolic capacity and its distortion under conformal mapping. (English summary) **2001j:30020**
Fitzsimmons, P. J. Strict fine maxima. (English summary) **2001g:60181**
Gardiner, Stephen J. *see* **Armitage, David H., 2001m:31001**
GowriSankaran, Kohur (*with* Singman, David) Minimal fine limits for a class of potentials. (English summary) **2001g:31006**
Hirsch, Francis (*with* Song, Shiqi) Multiparameter Markov processes and capacity. (English summary) **2001a:60088**
Jacob, Niels An application of $(r, 2)$-capacities to pseudo differential operators. (English summary) **2001e:60154**
Latvala, Visa A theorem on fine connectedness. (English summary) **2001f:31016**
Peres, Yuval Probability on trees: an introductory climb. **2001c:60139**
— *see also* **Angel, Omer et al., 2001h:60132**
Pfaltzgraff, John A. *see* **Duren, Peter, 2001j:30020**
Rao, Murali (*with* Sokołowski, Jan) Non-linear balayage and applications. (English summary) **2001j:31007**
Siciak, Józef Wiener's type sufficient conditions for regularity in $\mathbf{C}^N$. **2001g:32080**
Singman, David *see* **GowriSankaran, Kohur, 2001g:31006**
Sokołowski, Jan *see* **Rao, Murali, 2001j:31007**
Song, Shiqi *see* **Hirsch, Francis, 2001a:60088**
Verbitskiĭ, I. È. Nonlinear potentials and trace inequalities. (English summary) **2001g:46086**

31C20 Discrete potential theory and numerical methods

Bendito, Enrique (*with* Carmona, Angeles; Encinas, Andrés M.) Solving boundary value problems on networks using equilibrium measures. (English summary) **2001c:31006**
Carmona, Angeles *see* **Bendito, Enrique et al., 2001c:31006**
Encinas, Andrés M. *see* **Bendito, Enrique et al., 2001c:31006**
Gérardin, Paul (*with* Lai, K. F.) Asymptotic behaviour of eigenfunctions on semi-homogeneous tree. (English summary) **2001m:31020**
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Mouton, Frédéric Comportement asymptotique des fonctions harmoniques sur les arbres. (English and French summaries) [Asymptotic behavior of harmonic functions on trees] **2001b:31009**
Murakami, Atsushi (*with* Yamasaki, Maretsugu) Discrete Kuramochi function. (English summary) **2001e:31014**
— (*with* Yamasaki, Maretsugu) Inequalities on infinite networks. (English summary) **2001i:31015**
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Allard, Christine (*with* Froese, R. G.) A Mourre estimate for a Schrödinger operator on a binary tree. (English summary) **2001k:47105**
Astrakhantsev, G. P. Difference analogs of potentials, fictitious-component methods, and decomposition. (English summary)
Borodin, A. M. (*with* Olshanskiĭ, Grigoriĭ) Harmonic functions on multiplicative graphs and interpolation polynomials. (English summary) **2001f:05160**
Bube, Kenneth P. *see* **Wiegmann, Andreas, 2001b:65117**
Froese, R. G. *see* **Allard, Christine, 2001k:47105**
Olshanskiĭ, Grigoriĭ *see* **Borodin, A. M., 2001f:05160**
Shirai, Tomoyuki The spectrum of infinite regular line graphs. (English summary) **2001f:05092**
Urakawa, Hajime The spectrum of an infinite graph. (English summary) **2001k:05146**
Wiegmann, Andreas (*with* Bube, Kenneth P.) The explicit-jump immersed interface method: finite difference methods for PDEs with piecewise smooth solutions. (English summary) **2001b:65117**

31C25 Dirichlet spaces

Al'beverio, S. (*with* Ugolini, Stefania) Complex Dirichlet forms: nonsymmetric diffusion processes and Schrödinger operators. (English summary) **2001e:31015**
Ben-Bassat, Oren (*with* Strichartz, Robert S.; Teplyaev, A. V.) What is not in the domain of the Laplacian on Sierpinski gasket type fractals. (English summary) **2001e:31016**
Biroli, Marco (*with* Tchou, Nicoletta Anna) Relaxation for Dirichlet problems involving a Dirichlet form. (English summary) **2001e:31017**
Cipriani, Fabio Estimates for capacities of nodal sets and polarity criteria in recurrent Dirichlet spaces. (English summary) **2001f:31013**
Fitzsimmons, P. J. Hardy's inequality for Dirichlet forms. (English summary) **2001h:31010**
Jacob, Niels (*with* Schilling, René L.) Fractional derivatives, non-symmetric and time-dependent Dirichlet forms and the drift form. (English summary) **2001g:31009**
Jonsson, Alf Dirichlet forms and Brownian motion penetrating fractals. (English summary) **2001h:31011**
Kaneko, Hiroshi[2] A class of spatially inhomogeneous Dirichlet spaces on the p-adic number field. (English summary) **2001k:31014**
Kumagai, Takashi Brownian motion penetrating fractals: an application of the trace theorem of Besov spaces. (English summary) **2001a:31009**
Kuwae, Kazuhiro On a strong maximum principle for Dirichlet forms. (English summary) **2001k:31015**
Lancia, M. R. (*with* Vivaldi, M. A.) Lipschitz spaces and Besov traces on self-similar fractals. (English and Italian summaries) **2001g:31010**
Lewkeeratiyutkul, Wicharn Perturbation theorems for supercontractive semigroups. (English summary) **2001a:31010**
Mataloni, S. Representation formulas for non-symmetric Dirichlet forms. (English summary) **2001k:31016**
Peirone, Roberto Convergence and uniqueness problems for Dirichlet forms on fractals. (Italian summary) **2001i:31016**
Schilling, René L. *see* **Jacob, Niels, 2001g:31009**
Schmuland, Byron Extended Dirichlet spaces. (English and French summaries) **2001e:31018**
— Dirichlet forms: some infinite-dimensional examples. (English and French summaries) **2001g:31011**
— Some exceptional configurations. (English summary) **2001i:31017**
Strichartz, Robert S. Taylor approximations on Sierpinski gasket type fractals. (English summary) **2001i:31018**
— *see also* **Ben-Bassat, Oren et al., 2001e:31016**
Sturm, K.-Th. Monotone approximation of energy functionals for mappings into metric spaces. II. (English summary) **2001f:31014**
Sun, Wei[3] Quasi-homeomorphisms and measures of finite energy integrals of generalized Dirichlet forms. (English summary) **2001k:31017**
Tchou, Nicoletta Anna *see* **Biroli, Marco, 2001e:31017**
Teplyaev, A. V. Gradients on fractals. (English summary) **2001h:31012**
— *see also* **Ben-Bassat, Oren et al., 2001e:31016**
Ugolini, Stefania *see* **Al'beverio, S., 2001e:31015**
Vivaldi, M. A. *see* **Lancia, M. R., 2001g:31010**

Items with secondary classifications in 31C25

Auscher, Pascal (*with* Barthélemy, Louise; Bénilan, Philippe; Ouhabaz, El Maati) Absence de la L^∞-contractivité pour les semi-groupes associés aux opérateurs elliptiques complexes sous forme divergence. (English and French summaries) [Absence of L^∞-contractivity for semigroups associated with complex elliptic operators in divergence form] **2001g:35001**
Barlow, Martin T. (*with* Bass, Richard F.) Divergence form operators on fractal-like domains. (English summary) **2001i:58071**
Barthélemy, Louise *see* **Auscher, Pascal et al., 2001g:35001**
Bass, Richard F. *see* **Barlow, Martin T., 2001i:58071**
Bendikov, A. D. (*with* Saloff-Coste, Laurent) Potential theory on infinite products and locally compact groups. (English summary) **2001a:31012**
Bénilan, Philippe *see* **Auscher, Pascal et al., 2001g:35001**
Chen, Mu Fa Nash inequalities for general symmetric forms. (English summary) **2001g:60200**
— (*with* Wang, Feng-Yu) Cheeger's inequalities for general symmetric forms and existence criteria for spectral gap. (English summary) **2001g:60174**
Cipriani, Fabio (*with* Fagnola, Franco; Lindsay, J. Martin) Spectral analysis and Feller property for quantum Ornstein-Uhlenbeck semigroups. (English summary) **2001b:47070**
Denis, Laurent (*with* Grorud, Axel; Pontier, Monique) Formes de Dirichlet sur un espace de Wiener-Poisson. Application au grossissement de filtration. (English and French summaries) [Dirichlet forms on a Wiener-Poisson space. Application to filtration enlargement] **2001c:60090**
Eberle, Andreas ★ Uniqueness and non-uniqueness of semigroups generated by singular diffusion operators. **2001c:60122**
— L^p uniqueness of non-symmetric diffusion operators with singular drift coefficients. I. The finite-dimensional case. (English summary) **2001e:47075**
Fagnola, Franco *see* **Cipriani, Fabio et al., 2001b:47070**
Fukushima, Masatoshi On semi-martingale characterizations of functionals of symmetric Markov processes. (English summary) **2001b:60091**
— On limit theorems for Brownian motions on unbounded fractal sets. (English summary) (*see* **2001d:28001**)
— Decompositions of symmetric diffusion processes and related topics in analysis [translation of Sūgaku **50** (1998) no. 1, 56–67; MR 99g:60138]. (*see* **2001m:00026**)
Grorud, Axel *see* **Denis, Laurent et al., 2001c:60090**
Gross, Leonard Hypercontractivity over complex manifolds. **2001c:58034**
Gulisashvili, Archil Sharp estimates in smoothing theorems for Schrödinger semigroups. (English summary) **2001i:47069**
Hambly, Ben M. (*with* Jones, O. D.) Modelling transport in disordered media via diffusion on fractals. (English summary) (*see* **2001a:90008**)
Hino, Masanori Exponential decay of positivity preserving semigroups on L^p. **2001k:60109**
Jacob, Niels (*with* Moroz, V. B.) On the semilinear Dirichlet problem for a class of nonlocal operators generating Dirichlet forms. (English summary) **2001h:35200**
Jones, O. D. *see* **Hambly, Ben M., (2001a:90008)**
Kigami, Jun Markov property of Kusuoka-Zhou's Dirichlet forms on self-similar sets. (English summary) **2001g:60182**
Kim, Jai Heui (*with* Song, Jung Hoon) On oblique reflecting switched diffusion processes. (English summary) **2001f:60076**
Lindsay, J. Martin *see* **Cipriani, Fabio et al., 2001b:47070**
Long, Hongwei Necessary and sufficient conditions for the symmetrizability of differential operators over infinite dimensional state spaces. (English summary) **2001e:28023**
Ma, Zhi-Ming (*with* Röckner, Michael) Construction of diffusions on configuration spaces. **2001h:60138**
Moroz, V. B. *see* **Jacob, Niels, 2001h:35200**
Ouhabaz, El Maati *see* **Auscher, Pascal et al., 2001g:35001**
Park, Yong Moon (*with* Yoo, Hyun Jae) Dirichlet forms and diffusion processes in infinite-dimensional spaces. (Korean. Korean summary) **2001m:35309**
Picard, Jean The manifold-valued Dirichlet problem for symmetric diffusions. (English summary) **2001m:58077**
Pietruska-Pałuba, Katarzyna On function spaces related to fractional diffusions on d-sets. (English summary) **2001i:60123**
Pontier, Monique *see* **Denis, Laurent et al., 2001c:60090**

Röckner, Michael *see* **Ma, Zhi-Ming, 2001h:60138**
Rozkosz, Andrzej (*with* Słomiński, Leszek) Stochastic representation of reflecting diffusions corresponding to divergence form operators. (English summary) **2001d:60087**
Saloff-Coste, Laurent *see* **Bendikov, A. D., 2001a:31012**
Schiff, J. L. On a generalized Sobolev space. **2001j:46042**
Shigekawa, Ichiro The domain of a generator and the intertwining property. **2001j:60136**
Słomiński, Leszek *see* **Rozkosz, Andrzej, 2001d:60087**
Song, Jung Hoon *see* **Kim, Jai Heui, 2001f:60076**
Strichartz, Robert S. (*with* Usher, Michael) Splines on fractals. (English summary) **2001c:28016**
Usher, Michael *see* **Strichartz, Robert S., 2001c:28016**
Wang, Feng-Yu *see* **Chen, Mu Fa, 2001g:60174**
Yoo, Hyun Jae *see* **Park, Yong Moon, 2001m:35309**
Zhang, Tusheng On the small time large deviations of diffusion processes on configuration spaces. (English summary) **2001k:60041**

Items listed otherwise than by author

Lecture Notes in Mathematics *see* **Eberle, Andreas, 2001c:60122**

31C35 Martin boundary theory [see also 60J50]

Bogdan, Krzysztof Representation of α-harmonic functions in Lipschitz domains. (English summary) **2001a:31011**

Items with secondary classifications in 31C35

Aikawa, Hiroaki Norm estimate of the Green operator and its application. **2001b:31003**
— Boundary Harnack principle and Martin boundary for a uniform domain. (English summary) **2001m:31007**
Ancona, Alano (*with* Chevallier, Nicolas) Sur la convergence radiale des potentiels associés à l'équation de Helmholtz. (English and French summaries) [Radial convergence of potentials associated with the Helmholtz equation] **2001i:31012**
Benyaiche, Allami (*with* Boukricha, Abderrahman) Ordre de Nevanlinna des fonctions sousharmoniques continues en une singularité isolée. (French summary) [Nevanlinna order of continuous subharmonic functions at an isolated singularity] **2001k:31005**
Boukricha, Abderrahman *see* **Benyaiche, Allami, 2001k:31005**
Chevallier, Nicolas *see* **Ancona, Alano, 2001i:31012**
El Hajji, Mohamed A diffusion equation for composite materials. (English summary) **2001c:35028**
Jin, Naondo (*with* Masaoka, Hiroaki; Segawa, Shigeo) Kuramochi boundary of unlimited covering surfaces. (English summary) **2001g:30030**
Kaneko, Hiroshi[2] Martin-Kuramochi boundary and reflecting symmetric diffusion. (English summary) **2001m:60173**
Masaoka, Hiroaki *see* **Jin, Naondo et al., 2001g:30030** *and* **Segawa, Shigeo, (2001e:46001)**
Mouton, Frédéric Comportement asymptotique des fonctions harmoniques sur les arbres. (English and French summaries) [Asymptotic behavior of harmonic functions on trees] **2001b:31009**
Segawa, Shigeo (*with* Masaoka, Hiroaki) Bounded harmonic functions on unlimited covering surfaces. (*see* **2001e:46001**)
— *see also* **Jin, Naondo et al., 2001g:30030**
Song, Renming (*with* Wu, Jang-Mei) Boundary Harnack principle for symmetric stable processes. (English summary) **2001b:60092**
Wu, Jang-Mei *see* **Song, Renming, 2001b:60092**

31C40 Fine potential theory

El Kadiri, Mohamed Démonstration simplifiée d'un théorème de Fuglede sur la représentation intégrale des potentiels fins. (French and Italian summaries) [Simplified proof of a theorem of Fuglede on the integral representation of fine potentials] **2001f:31015**
— Sur la décomposition de Riesz et la représentation intégrale des fonctions finement surharmoniques. (English summary) [Riesz decomposition and integral representation of finely superharmonic functions] **2001e:31019**
Tamrazov, Promarz M. Finely holomorphic functions in contour-solid and cluster problems. (English summary) (*see* **2001b:00021**)

Items with secondary classifications in 31C40

Bliedtner, Jürgen (*with* Loeb, Peter Albert) The optimal differentiation basis and liftings of L^∞. (English summary) **2001f:28005**
El Hajji, Mohamed A diffusion equation for composite materials. (English summary) **2001c:35028**
Jin, Naondo (*with* Masaoka, Hiroaki; Segawa, Shigeo) Kuramochi boundary of unlimited covering surfaces. (English summary) **2001g:30030**
Loeb, Peter Albert *see* **Bliedtner, Jürgen, 2001f:28005**
Masaoka, Hiroaki *see* **Jin, Naondo et al., 2001g:30030**
Segawa, Shigeo *see* **Jin, Naondo et al., 2001g:30030**
Wordsworth, J. R. Asymptotic values of fine continuous functions. **2001j:26006**

31C45 Other generalizations (nonlinear potential theory, etc.)

Boukricha, Abderrahman Harnack inequality for nonlinear harmonic spaces. **2001j:31006**
van Gool, Frans Resolvents in semi-linear harmonic spaces. (English summary) **2001d:31007**
— Nonlinear kernels and their resolvents. (English summary) **2001d:31006**
Hou, Zhen Ting *see* **Li, Jun Ping, 2001k:31018**
Kosbergenov, S. (*with* Narekeev, B.) On some properties of the Poisson integral for a matrix ball. (Russian. English and Uzbek summaries) **2001m:31021**
Latvala, Visa A theorem on fine connectedness. (English summary) **2001f:31016**
Li, Jun Ping (*with* Hou, Zhen Ting) A harmonic calculus on SG(N, 3). (Chinese. English and Chinese summaries) **2001k:31018**
Maeda, Fumi-Yuki (*with* Ono, Takayori) Resolutivity of ideal boundary for nonlinear Dirichlet problems. (English summary) **2001h:31013**
Narekeev, B. *see* **Kosbergenov, S., 2001m:31021**
Ono, Takayori *see* **Maeda, Fumi-Yuki, 2001h:31013**
Rao, Murali (*with* Sokołowski, Jan) Non-linear balayage and applications. (English summary) **2001j:31007**
Sergeev, A. I. Uniqueness and approximation theorems for one-dimensional M. Riesz potential. (English summary)
Sokołowski, Jan *see* **Rao, Murali, 2001j:31007**

Items with secondary classifications in 31C45

Bao, Ge Jun $A_r(\lambda)$-weighted integral inequalities for A-harmonic tensors. (English summary) **2001g:58001**
Cruz-Báez, Domingo Israel On nonlinear Hankel potentials. (English summary) **2001j:31005**
Dal Maso, Gianni (*with* Murat, François; Orsina, Luigi; Prignet, Alain) Renormalized solutions of elliptic equations with general measure data. (English summary) **2001d:35190**
Gasanov, D. D. The Riesz B_α-potential in the spaces $\Gamma^*_{p\theta,\gamma}(\mathbf{R}^n_+, \varphi)$. (Russian. English and Azerbaijani summaries)
Ghisa, Dorin Potentials on nonorientable Klein surfaces. (English summary) **2001k:30062**
Karp, Lavi (*with* Shahgholian, Henrik) On the optimal growth of functions with bounded Laplacian. (English summary) **2001i:35056**
Kilpeläinen, Tero (*with* Li, Gong Bao) Estimates for p-Poisson equations. (English summary) **2001b:35093**
— (*with* Lindqvist, Peter) Nonlinear ground states in irregular domains. (English summary) **2001i:35121**
Kim, Seok Woo (*with* Lee, Yong Hah) Nonnegative solutions of an elliptic equation and Harnack ends of Riemannian manifolds. (English summary) **2001k:58035**
Kurokawa, Takahide On relations between Bessel potential spaces and Riesz potential spaces. (English summary) **2001e:46059**
Lee, Yong Hah *see* **Kim, Seok Woo, 2001k:58035**
Li, Gong Bao *see* **Kilpeläinen, Tero, 2001b:35093**
Lindqvist, Peter *see* **Kilpeläinen, Tero, 2001i:35121**
Markina, I. G. *see* **Vodop'yanov, S. K., (2001c:00013)**
Maz'ya, Vladimir G. On Wiener's type regularity of a boundary point for higher order elliptic equations. **2001m:35129**
Mizuta, Yoshihiro (*with* Shimomura, Tetsu) Differentiability and Hölder continuity of Riesz potentials of Orlicz functions. (English summary) **2001h:46052**
Mocanu, Marcelina Lindelöf's principle for quasiregular mappings. (English summary) **2001m:30028**
Murat, François *see* **Dal Maso, Gianni et al., 2001d:35190**
Nolder, Craig A. Global integrability theorems for A-harmonic tensors. (English summary) **2001f:35151**
Orsina, Luigi *see* **Dal Maso, Gianni et al., 2001d:35190**
Prignet, Alain *see* **Dal Maso, Gianni et al., 2001d:35190**
Shahgholian, Henrik *see* **Karp, Lavi, 2001i:35056**
Shimomura, Tetsu *see* **Mizuta, Yoshihiro, 2001h:46052**
Vodop'yanov, S. K. (*with* Markina, I. G.) Fundamentals of the nonlinear potential theory for subelliptic equations [MR 98i:35028; MR 99c:35032]. (Russian. Russian summary) (*see* **2001c:00013**)
Zorii, N. V. Extremal problems of potential theory in locally compact spaces. (Russian. Russian summary) **2001g:31008**

31C99 None of the above, but in this section

Items with secondary classifications in 31C99

Cerutti, R. A. (*with* Trione, Susana Elena) Some properties of the generalized causal and anticausal Riesz potentials. (English summary) **2001j:47054**
Dzhaiani, G. V. On boundary value problems for conjugate generalized harmonic functions. (English summary) **2001f:35103**
Larcher, G. (*with* Schmid, Wolfgang Ch.; Wolf, Reinhard Karl) On the approximation of certain mass distributions appearing in distance geometry. (English summary) **2001f:65013**
Miklyukov, V. M. The Hardy inequality for functions with generalized derivatives on Riemannian manifolds. (Russian. English summary) **2001h:53041**
Schmid, Wolfgang Ch. *see* **Larcher, G. et al., 2001f:65013**
Trione, Susana Elena *see* **Cerutti, R. A., 2001j:47054**
Tsuruta, Tomohisa Harmonic morphisms on weighted graphs. (English summary) **2001e:05085**
Wolf, Reinhard Karl *see* **Larcher, G. et al., 2001f:65013**
Yıldırım, Hüseyin Inversions of Bessel-n potentials generated by the generalized shift operators. (English summary) **2001c:26008**

31D05 Axiomatic potential theory

Anandam, V. *see* **Othman, S. I., 2001g:31012**
Bendikov, A. D. (*with* Saloff-Coste, Laurent) Some problems in analysis and probability on infinite dimensional groups. (*see* **2001d:00027**)
— (*with* Saloff-Coste, Laurent) Potential theory on infinite products and locally compact groups. (English summary) **2001a:31012**
Ben Saad, H. (*with* Haouala, E.) Décomposition d'une théorie du potentiel en des sous-espaces elliptiques et paraboliques. (English and French summaries) [Decomposition of a potential theory into elliptic and parabolic subspaces] **2001h:31014**
GowriSankaran, Kohur (*with* Nersesyan, Ashot A.) Superharmonic tangential approximation on long islands. (English summary) **2001b:31010**
Haouala, E. *see* **Ben Saad, H., 2001h:31014**
Janssen, Klaus On the Choquet charge of δ-superharmonic functions. (English summary) **2001f:31017**

Keuntje, J.-M. Perturbation of harmonic spaces by differences of bounded potentials. (English summary) **2001c:31007**
de La Pradelle, Arnaud Erratum: "On the perturbations of harmonic spaces" [Acad. Roy. Belg. Bull. Cl. Sci. (6) 1 (1990), no. 6–9, 201–212; MR 93d:31010]. (French) **2001e:31020**
Nersesyan, Ashot A. *see* **GowriSankaran, Kohur, 2001b:31010**
Othman, S. I. (*with* Anandam, V.) Singularities of bounded harmonic functions. (English summary) **2001g:31012**
Popa, Eugen (*with* Popa, Liliana) Morphisms for semi-dynamical systems. **2001j:31008**
Popa, Liliana *see* **Popa, Eugen, 2001j:31008**
Premalatha (*with* Sowmya, T.) Böcher's theorem in a space of dimension one. (English summary) **2001j:31009**
Saloff-Coste, Laurent *see* **Bendikov, A. D., 2001a:31012** *and* **(2001d:00027)**
Sowmya, T. *see* **Premalatha, 2001j:31009**
Štěpničková, Libuše Pointwise and locally uniform convergence of holomorphic and harmonic functions. (English summary) **2001e:31021**

Items with secondary classifications in 31D05

Benyaiche, Allami (*with* Boukricha, Abderrahman) Ordre de Nevanlinna des fonctions sousharmoniques continues en une singularité isolée. (French summary) [Nevanlinna order of continuous subharmonic functions at an isolated singularity] **2001k:31005**
Betancor, Jorge J. (*with* Fariña Gil, Juan Carlos; Llorente, J. G.) Axiomatic potential theory, asymptotic values and elliptic differential operators. (English summary) **2001f:31004**
Beznea, Lucian (*with* Boboc, Nicu) Excessive kernels and Revuz measures. (English summary) **2001h:60131**
Boboc, Nicu *see* **Beznea, Lucian, 2001h:60131**
Boukricha, Abderrahman Harnack inequality for nonlinear harmonic spaces. **2001j:31006**
— *see also* **Benyaiche, Allami, 2001k:31005**
Dong, Zhao $C_{r,p}$-capacity associated with Hunt processes. **2001j:60134**
Fariña Gil, Juan Carlos *see* **Betancor, Jorge J. et al., 2001f:31004**
Fuglede, Bent The beginnings of harmonic morphisms. **2001b:58029**
van Gool, Frans Resolvents in semi-linear harmonic spaces. (English summary) **2001d:31007**
— Nonlinear kernels and their resolvents. (English summary) **2001d:31006**
Hmissi, Mohamed On the exit equation for semidynamical systems. (English summary) **2001a:37020**
Llorente, J. G. *see* **Betancor, Jorge J. et al., 2001f:31004**

32–XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see 46G20, 58B12.}

32–01 Instructional exposition (textbooks, tutorial papers, etc.)

Chen, So-Chin Complex analysis in one and several variables. (English summary) **2001m:32001**
de Jong, Theo (*with* Pfister, Gerhard) ★ Local analytic geometry. (English summary) **2001c:32001**
Pfister, Gerhard *see* **de Jong, Theo, 2001c:32001**

Items with secondary classifications in 32–01

Gong, Sheng ★ Concise complex analysis. (English summary)
(Graham, Ian) *see* **Gong, Sheng**
(Levenberg, Norman) *see* **Nishino, Toshio, 2001k:32001**
Nishino, Toshio ★ Function theory in several complex variables. (English summary) **2001k:32001**
(Yamaguchi, Hiroshi[1]) *see* **Nishino, Toshio, 2001k:32001**

32–02 Research exposition (monographs, survey articles)

Dolbeault, Pierre Variétés et espaces analytiques complexes. [Complex-analytic varieties and spaces] **2001m:32002**
(Levenberg, Norman) *see* **Nishino, Toshio, 2001k:32001**
Muciño-Raymundo, Jesús Some problems of geometry in $\mathbf{R}^n$ and $\mathbf{C}^n$ for the XXIst century. (Spanish)
Nishino, Toshio ★ Function theory in several complex variables. (English summary) **2001k:32001**
(Yamaguchi, Hiroshi[1]) *see* **Nishino, Toshio, 2001k:32001**

Items with secondary classifications in 32–02

Chen, So-Chin (*with* Shaw, Mei-Chi) ★ Partial differential equations in several complex variables. **2001m:32071**
Faraut, Jacques (*with* Kaneyuki, Soji; Korányi, Adam; Lu, Qi-keng; Roos, Guy) ★ Analysis and geometry on complex homogeneous domains. (English summary) **2001f:32036**
Kaneyuki, Soji *see* **Faraut, Jacques et al., 2001f:32036**
Korányi, Adam *see* **Faraut, Jacques et al., 2001f:32036**
Lu, Qi-keng *see* **Faraut, Jacques et al., 2001f:32036**
Roos, Guy *see* **Faraut, Jacques et al., 2001f:32036**
Shaw, Mei-Chi *see* **Chen, So-Chin, 2001m:32071**
Zheng, Fangyang ★ Complex differential geometry. **2001i:32035**

Items listed otherwise than by author

Progress in Mathematics *see* **Faraut, Jacques et al., 2001f:32036**

32–03 Historical (must also be assigned at least one classification number from Section 01)

Skoda, Henri Présence de l'œuvre de Pierre Lelong dans les grands thèmes de recherches d'aujourd'hui. (English and French summaries) [The presence of the work of Pierre Lelong in the big picture of modern research] **2001h:32001**

Items with secondary classifications in 32–03

Kiselman, Christer O. Plurisubharmonic functions and potential theory in several complex variables. (English and Esperanto summaries) **2001j:32034**
(Leray, Jean) *see* **Yger, Alain, (2001d:01001)**
Reitberger, Heinrich The turbulent fifties in resolution of singularities. **2001c:14003**
Yger, Alain Jean Leray et la théorie des résidus. [Jean Leray and residue theory] (*see* **2001d:01001**)

32–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 32–04

Nakamura, Yayoi *see* **Tajima, Shin-ichi, 2001b:32012**
Tajima, Shin-ichi (*with* Nakamura, Yayoi) Computation of residues of multivariable rational functions. (Japanese) **2001b:32012**

32–06 Proceedings, conferences, collections, etc.

(Dolbeault, Pierre) *see* **Complex analysis and geometry, 2001c:32002**
(Henkin, Gennadi M.) *see* **Complex analysis and geometry, 2001c:32002**
(Iordan, A.) *see* **Complex analysis and geometry, 2001c:32002**
(Kim, Kang-Tae) *see* **Several complex variables, 2001b:32001**
(Lelong, Pierre) *see* **Complex analysis and geometry, 2001c:32002**
(Skoda, Henri) *see* **Complex analysis and geometry, 2001c:32002**
(Trépreau, J.-M.) *see* **Complex analysis and geometry, 2001c:32002**

Items listed otherwise than by author

Birthday:
  Lelong, Pierre ★ Complex analysis and geometry. **2001c:32002**
Complex analysis and geometry ★ Complex analysis and geometry. **2001c:32002**
Conference:
  Complex Analysis and Geometry ★ Complex analysis and geometry. **2001c:32002**
  Several Complex Variables ★ {Several complex variables}. **2001b:32001**
Festschrift:
  Lelong, Pierre ★ Complex analysis and geometry. **2001c:32002**
Paris ★ Complex analysis and geometry. **2001c:32002**
Progress in Mathematics ★ Complex analysis and geometry. **2001c:32002**
Seoul ★ {Several complex variables}. **2001b:32001**
Several complex variables ★ {Several complex variables}. **2001b:32001**

Items with secondary classifications in 32–06

(Alpay, Daniel) *see* **Reproducing kernels and their applications, 2001d:00046**
(Ball, Joseph A.) *see* **Reproducing kernels and their applications, 2001d:00046**
(Brasselet, Jean-Paul) *see* **Singularities—Sapporo 1998, 2001j:14003**
(Coen, Salvatore) *see* **Seminar: Geometry, 2001d:00049**
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(Kajiwara, Joji) *see* **Finite or infinite dimensional complex analysis, 2001b:00021**
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(Lyubich, Mikhail) *see* **Laminations and foliations in dynamics, geometry and topology, 2001h:00027**
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(Ohsawa, Takeo) *see* **Reproducing kernels and their applications, 2001d:00046**
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(Sentenac, Pierrette) *see* **Complex geometry and dynamical systems, 2001a:37003**
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  Douady, Adrien ★ Géométrie complexe et systèmes dynamiques. [Complex geometry and dynamical systems] **2001a:37003**
Bologna ★ Seminari di Geometria. 1998–1999. [Geometry Seminars. 1998–1999] **2001d:00049**
Colloquium:
  Finite or Infinite Dimensional Complex Analysis ★ Finite or infinite dimensional complex analysis. **2001b:00021**
Complex geometry and dynamical systems ★ Géométrie complexe et systèmes dynamiques. [Complex geometry and dynamical systems] **2001a:37003**
Conference:
  Complex Geometry and Dynamical Systems ★ Géométrie complexe et systèmes dynamiques. [Complex geometry and dynamical systems] **2001a:37003**
  Real and Complex Analytic Geometry ★ Seminari di Geometria. 1998–1999. [Geometry Seminars. 1998–1999] **2001d:00049**
Congress:
  International Society for Analysis, its Applications and Computations ★ Reproducing kernels and their applications. **2001d:00046**
Contemporary Mathematics ★ Laminations and foliations in dynamics, geometry and topology. **2001h:00027**
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  Douady, Adrien ★ Géométrie complexe et systèmes dynamiques. [Complex geometry and dynamical systems] **2001a:37003**
Finite or infinite dimensional complex analysis ★ Finite or infinite dimensional complex analysis. **2001b:00021**
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  Reproducing Kernels and their Applications ★ Reproducing kernels and their applications. **2001d:00046**
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32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

Aizenberg, Lev (*with* Tarkhanov, Nikolai N.) A Bohr phenomenon for elliptic equations. **2001m:32003**
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32A07 Special domains (Reinhardt, Hartogs, circular, tube)

Kodama, Akio A remark on generalized complex ellipsoids with spherical boundary points. (English summary) **2001i:32001**

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32A10 Holomorphic functions

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32A17 Special families of functions

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32A18 Bloch functions, normal functions

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32A19 Normal families of functions, mappings

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32A20 Meromorphic functions

Sun, Dao Chun Normal theorems for quasimeromorphic mappings of several complex variables. (Chinese. English and Chinese summaries) **2001d:32003**

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32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30.}

Berenstein, Carlos A. (*with* Chang, Der-Chen; Li, Bao Qin) The uniqueness problem and meromorphic solutions of partial differential equations. (English summary) **2001g:32002**
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32A25 Integral representations; canonical kernels (Szegő, Bergman, etc.)

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32A26 Integral representations, constructed kernels (e.g. Cauchy, Fantappiè-type kernels)

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32A27 Local theory of residues [see also 32C30]

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32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

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Curt, Paula (*with* Răducanu, Dorina) Loewner chains and univalence criteria. **2001k:32026**
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Graham, Ian (*with* Kohr, Gabriela; Kohr, Mirela) Loewner chains and the Roper-Suffridge extension operator. (English summary) **2001g:32041**
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— *see also* **Curt, Paula, 2001k:32026**
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Thomas, Pascal J. *see* **Massaneda, Xavier, 2001i:32018**

32A35 H^p-spaces, Nevanlinna spaces [see also 32M15, 42B30, 43A85, 46J15]

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Russo, Bernard The small Hankel operator in several complex variables. (English summary) **2001d:47041**
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32A36 Bergman spaces

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Burke, Kevin Duality of the Bergman spaces on some weakly pseudoconvex domains. **2001j:46028**
Cho, Sanghyun (*with* Lim, Jongchun) Lower bounds on the holomorphic sectional curvature of the Bergman metric on locally convex domains in $\mathbf{C}^n$. (English summary) **2001d:32012**
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Skwarczyński, Maciej On completeness of infinitely connected domains. (English summary) **2001e:32014**
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Shi, Ji Huai (*with* Luo, Luo) Composition operators on the Bloch space of several complex variables. (English summary) **2001h:47037**

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32A38 Algebras of holomorphic functions [see also 30H05, 46J10, 46J15]

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32A40 Boundary behavior of holomorphic functions

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Globevnik, Josip Holomorphic functions which are highly nonintegrable at the boundary. (English summary) **2001c:32005**

Krantz, Steven G. Fatou theorems old and new: an overview of the boundary behavior of holomorphic functions. (English summary) **2001h:32006**

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32A45 Hyperfunctions [see also 46F15]

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Chung, Soon-Yeong The edge of the wedge theorems and applications. (English summary) **2001g:32015**

Eida, Atsuhiko (*with* Pilipović, Stevan S.) Suppleness of some quotient spaces of microfunctions. (English summary) **2001j:32006**

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— (*with* Morimoto, Mitsuo) Reproducing kernels related to the complex sphere. (English summary) **2001j:46031**

Morimoto, Mitsuo *see* **Fujita, Keiko, 2001j:46031**

Wada, Ryoko Integral expressions of harmonic polynomials on the single orbit: in the case of real rank 1. (*see* **2001f:35007**)

32A50 Harmonic analysis of several complex variables [See mainly 43–XX]

Dubtsov, E. S. On the radial behavior of functions holomorphic in a ball. (English summary)

— Some problems of harmonic analysis on a complex sphere. (English summary)

Neretin, Yurii A. On the separation of spectra in the analysis of Berezin kernels. (Russian. Russian summary) **2001m:32012**

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Zhang, Zhenqiu (*with* Zheng, Wei Xing) Multiplier theorems for special Hermite expansions on $\mathbf{C}^n$. (English summary) **2001h:32008**

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Guliev, Vagif S. Spaces of Banach-valued holomorphic functions in the polydisk in connection with their boundary values. **2001g:32016**

Lehman, Éric (*with* Ramadanov, Ivan-Pierre) A monogenic function generating the homogeneous harmonic polynomials. **2001a:30061**

Nomura, Takaaki Invariant Berezin transforms. (English summary) **2001m:22019**

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32A55 Singular integrals

Calderón, Alberto Pedro (*with* Calderon, C. P.) A representation formula and its applications to singular integrals. **2001h:32009**

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Cowling, Michael (*with* Qian, Tao) A class of singular integrals on the n-complex unit sphere. (English summary) **2001e:32006**

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Li, Song-Ying Applications of the singular integral operators in real and complex analysis. (English and Chinese summaries) **2001f:32008**

Liu, Chao *see* **Hu, Chuan Gan et al., 2001e:32007**

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Qiu, Chun Hui The composite formulas on a convex domain in $\mathbb{C}^n$. (English summary) **2001d:32006**

32A60 Zero sets of holomorphic functions

Katô, Kazuko Généralisation du produit de Blaschke dans le bidisque-unité. [Generalization of the Blaschke product in the unit bidisk] **2001i:32007**
Lyubarskiĭ, Yuriĭ I. (*with* Rashkovskiĭ, A. Yu.) Complete interpolating sequences for Fourier transforms supported by convex symmetric polygons. **2001m:32013**
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Rullgård, Hans Stratification des espaces de polynômes de Laurent et la structure de leurs amibes. (English and French summaries) [Stratification of spaces of Laurent polynomials and the structure of their amoebas] **2001h:32044**

32A70 Functional analysis techniques [See mainly 46Exx]

Agler, Jim (*with* McCarthy, John E.) The three point Pick problem on the bidisk. (English summary) **2001j:32007**
Guliev, Vagif S. Spaces of Banach-valued holomorphic functions in the polydisk in connection with their boundary values. **2001g:32016**
Mazur, Tomasz The Bergman function, Gaussian measure, and Planck's constant. (English summary) **2001j:32008**
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Fujita, Keiko (*with* Morimoto, Mitsuo) Conical Fourier transform of Hardy space of harmonic functions on the Lie ball. (English summary) **2001k:46064**
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Lee, Jaesung The Berezin operator on the invariant L^p space in the ball. (English summary) **2001i:47042**
Lu, Yu-feng Compact operators on the Bergman spaces of the unit ball and the polydisk in $\mathbb{C}^n$. (English summary) **2001k:47038**
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32A99 None of the above, but in this section

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Shon, Kwang Ho *see* **Kajiwara, Joji et al., (2001a:00034)**
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32Bxx Local analytic geometry [see also 13–XX and 14–XX]

Abhyankar, Shreeram Shankar ★ Local analytic geometry. (English summary) **2001m:32014**

32B05 Analytic algebras and generalizations, preparation theorems

Elkhadiri, Abdelhafed Théorème de division avec des conditions au bord. (English summary) [Division theorem with boundary conditions] **2001i:32008**
— The limit directions of a real analytic vector field. (English summary) **2001i:32009**
Hiller, Ulrich On the vanishing order of a holomorphic germ along a complex analytic germ in $\mathbb{C}^n$. **2001m:32015**
Lipshitz, Leonard (*with* Robinson, Zachary) Rings of separated power series and quasi-affinoid geometry. (English and French summaries) **2001g:32017**
Robinson, Zachary *see* **Lipshitz, Leonard, 2001g:32017**

32B10 Germs of analytic sets, local parametrization

Hauser, Herwig (*with* Risler, Jean-Jacques) Dérivations et idéaux réels invariants. [Derivations and invariant real ideals] **2001k:32012**
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Elkhadiri, Abdelhafed The limit directions of a real analytic vector field. (English summary) **2001i:32009**
Favre, Charles Classification of 2-dimensional contracting rigid germs and Kato surfaces. I. (English and French summaries) **2001f:32027**
de Jong, Theo (*with* Pfister, Gerhard) ★ Local analytic geometry. (English summary) **2001c:32001**
Nowak, Krzysztof Jan Some elementary proofs of Puiseux's theorems. (English summary) **2001m:12015**
Pawłucki, Wiesław (*with* Piękosz, Artur) A remark on the Lion-Rolin preparation theorem for LA-functions. (English summary) **2001h:32011**
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32B15 Analytic subsets of affine space

Rams, Sławomir On the intersection product of analytic cycles. (English summary) **2001h:32010**

32B20 Semi-analytic sets and subanalytic sets [see also 14P15]

Bramaud du Boucheron-Mariaux, Bernadette Calcul de la tranche d'une chaîne sous-analytique. (English and French summaries) [Computing the slice of a subanalytic chain] **2001e:32008**
Comte, Georges (*with* Lion, Jean-Marie; Rolin, J.-P.) Nature log-analytique du volume des sous-analytiques. (English summary) [Log-analytic nature of the volume of subanalytic sets] **2001m:32016**
Gabrièlov, A. M. (*with* Khovanskiĭ, Askol'd G.) Multiplicity of a Noetherian intersection. (English summary) **2001c:32006**
Hajto, Zbigniew Lemmas A and B for sub-Pfaffian sets. (English summary) **2001b:32009**
Khovanskiĭ, Askol'd G. *see* **Gabrièlov, A. M., 2001c:32006**
Kocel-Cynk, Beata Finite decidability of subanalytic functions. (English summary) **2001a:32009**
— The Whitney property of a fiber of a definable mapping. (English summary) **2001g:32018**
— Interior distance of two points in a fiber of a subanalytic map. (English summary) **2001i:32010**
Kollár, János An effective Łojasiewicz inequality for real polynomials. **2001f:32009**
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Lion, Jean-Marie Inégalité de Lojasiewicz en géométrie pfaffienne. (English summary) [A Łojasiewicz inequality in Pfaffian geometry] **2001k:32013**
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Łojasiewicz, Stanisław (*with* Zurro, Maria-A.) On the gradient inequality. (English summary) **2001b:32010**
— (*with* Tougerons Irmar, J.-Cl.; Zurro, Maria-A.) Éclatement des coefficients des séries entières et deux théorèmes de Gabrielov. [Blowup of the coefficients of power series and two theorems of Gabrielov] (*see* **2001d:00049**)
Pawłucki, Wiesław (*with* Piękosz, Artur) A remark on the Lion-Rolin preparation theorem for LA-functions. (English summary) **2001h:32011**
Piękosz, Artur *see* **Pawłucki, Wiesław, 2001h:32011**
Rolin, J.-P. *see* **Comte, Georges et al., 2001m:32016**
Tougerons Irmar, J.-Cl. *see* **Łojasiewicz, Stanisław et al., (2001d:00049)**
Zurro, Maria-A. *see* **Łojasiewicz, Stanisław et al., 2001b:32010** *and* **(2001d:00049)**

Items with secondary classifications in 32B20

Acquistapace, Francesca (*with* Andradas, Carlos; Broglia, Fabrizio) The strict Positivstellensatz for global analytic functions and the moment problem for semianalytic sets. **2001g:14087**
Andradas, Carlos *see* **Acquistapace, Francesca et al., 2001g:14087**
Bierstone, Edward (*with* Milman, Pierre D.) Subanalytic geometry. (English summary) **2001g:14086**
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Cano Torres, Felipe (*with* Moussu, R.; Sanz, F.) Oscillation, spiralement, tourbillonnement. (English and French summaries) [Oscillation, spiralling, vorticity] **2001k:37034**
Elkhadiri, Abdelhafed The limit directions of a real analytic vector field. (English summary) **2001i:32009**
Gardener, T. S. Local flattening in rigid analytic geometry. **2001h:14024**
Lipshitz, Leonard (*with* Robinson, Zachary) Rings of separated power series and quasi-affinoid geometry. (English and French summaries) **2001g:32017**
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Noirel, Laurent (*with* Trotman, David) Subanalytic and semialgebraic realisations of abstract stratified sets. (English summary) **2001h:58006**
Nowak, Krzysztof Jan A model-theoretic version of the complement theorem. (English summary) **2001d:03091**
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Orro, Patrice (*with* Pelletier, Fernand) Indice local pour des ensembles symétriques par arcs. (English and French summaries) [Local index for arcwise symmetric sets] **2001h:14076**
Pelletier, Fernand *see* **Orro, Patrice, 2001h:14076**
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Sanz, F. *see* **Cano Torres, Felipe et al., 2001k:37034**
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32B25 Triangulation and related questions

Items with secondary classifications in 32B25

Orro, Patrice (*with* Trotman, David) Cône normal à une stratification régulière. (English and French summaries) [Normal cone in a regular stratification] **2001m:58005**
Trotman, David *see* **Orro, Patrice, 2001m:58005**

32B99 None of the above, but in this section

Epstein, Charles L. (*with* Henkin, Gennadi M.) Two lemmas in local analytic geometry. (English summary) **2001m:32017**

Henkin, Gennadi M. *see* **Epstein, Charles L., 2001m:32017**

Items with secondary classifications in 32B99

Birbrair, Lev (*with* Mostowski, Tadeusz) Normal embeddings of semialgebraic sets. **2001f:14099**
Fefferman, Charles Symplectic subunit balls and algebraic functions. **2001h:35034**
Mostowski, Tadeusz *see* **Birbrair, Lev, 2001f:14099**
Ohsawa, Takeo Relationship of interpolation problems and division problems. (Japanese) (*see* **2001h:00019**)
Spodzieja, Stanisław Multiplicity and the Łojasiewicz exponent. (English summary) **2001m:32057**

32Cxx Analytic spaces

32C05 Real-analytic manifolds, real-analytic spaces [see also 14Pxx, 58A07]

Fefferman, Charles (*with* Narasimhan, Raghavan) Bernstein inequalities for analytic and algebraic functions. **2001b:32011**
Fortuna, Elisabetta (*with* Galbiati, Margherita) Topological disconnection of real analytic spaces. **2001f:32010**
Galbiati, Margherita *see* **Fortuna, Elisabetta, 2001f:32010**
Gwoździewicz, Janusz Growth at infinity of a polynomial with a compact zero set. **2001a:32010**
Jacobs, Philippe Real principal value integrals. (English summary) **2001k:32014**
Kim, Hong Oh On complex-tangential curves on the unit sphere on $\mathbf{C}^2$ and homogeneous polynomials. (English summary) **2001g:32019**
Narasimhan, Raghavan *see* **Fefferman, Charles, 2001b:32011**
Tognoli, Alberto Some results in the theory of real analytic spaces and of real algebraic varieties. **2001h:32012**

Items with secondary classifications in 32C05

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Kutzschebauch, Frank (*with* Loose, Frank) Real analytic structures on a symplectic manifold. (English summary) **2001i:53128**
Loboda, A. V. A local description of homogeneous real hypersurfaces of the two-dimensional complex space in terms of their normal equations. (Russian. Russian summary) **2001f:32064**
Loose, Frank *see* **Kutzschebauch, Frank, 2001i:53128**

32C07 Real-analytic sets, complex Nash functions [see also 14P15, 14P20]

Cynk, Sławomir (*with* Tworzewski, Piotr) Diagonal representations of Nash functions. (English summary)
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Items with secondary classifications in 32C07

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32C11 Complex supergeometry [see also 14A22, 14M30, 58A50]

Onishchik, A. L. On supermanifolds associated with the cotangent bundle. (*see* **2001f:58004**)

Items with secondary classifications in 32C11

Benhamou, N. (*with* Lhallabi, T.) $N = 2$ supercovariant operators and Krichever-Novikov algebra. (English summary) **2001h:81100**
Deligne, Pierre (*with* Morgan, John W.) Notes on supersymmetry (following Joseph Bernstein). **2001g:58007**
Ivanova, N. I. Splittable flag supermanifolds. (Russian) **2001f:17008**
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Natanzon, S. M. Moduli of Riemann surfaces of a Hurwitz-type space and their super-analogues. (Russian) **2001g:32038**

32C15 Complex spaces

Items with secondary classifications in 32C15

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Do Duc Thai (*with* Pham Viet Duc) On the complete hyperbolicity and the tautness of the Hartogs domains. (English summary) **2001g:32059**
Grinberg, Eric Liviu (*with* Quinto, Eric Todd) Morera theorems for complex manifolds. (English summary) **2001k:53143**
Jarnicki, Marek (*with* Pflug, Peter) A remark on the product property for the Carathéodory pseudodistance. (English summary) **2001e:32013**
Pflug, Peter *see* **Jarnicki, Marek, 2001e:32013**
Pham Viet Duc *see* **Do Duc Thai, 2001g:32059**
Quinto, Eric Todd *see* **Grinberg, Eric Liviu, 2001k:53143**

32C18 Topology of analytic spaces

Items with secondary classifications in 32C18

Conrad, Brian Irreducible components of rigid spaces. (English and French summaries) **2001c:14045**

32C25 Analytic subsets and submanifolds

Barlet, Daniel (*with* Magnússon, Jón) Transfert de métrique. [Metric transfer] **2001i:32012**
Dinh, Tien-Cuong Sur la caractérisation du bord d'une chaîne holomorphe dans l'espace projectif. (English and French summaries) [Characterization of the boundary of a holomorphic chain in projective space] **2001h:32013**
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Items with secondary classifications in 32C25

Barlet, Daniel (*with* Magnússon, Jón) Transfert de l'amplitude du fibré normal au diviseur d'incidence. (English summary) [Transfer of the ampleness of the normal bundle to the incidence divisor] **2001f:32021**
Buzzard, Gregery T. (*with* Hubbard, John Hamal) A Fatou-Bieberbach domain avoiding a neighborhood of a variety of codimension 2. **2001d:32024**
Hubbard, John Hamal *see* **Buzzard, Gregery T., 2001d:32024**
Magnússon, Jón *see* **Barlet, Daniel, 2001f:32021**
Płoski, Arkadiusz (*with* Tworzewski, Piotr) Effective Nullstellensatz on analytic and algebraic varieties. (English summary) **2001c:14090**
Rams, Sławomir On the intersection product of analytic cycles. (English summary) **2001h:32010**
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Vâjâitu, Viorel The analyticity of q-concave sets of locally finite Hausdorff $(2n - 2q)$-measure. (English and French summaries) **2001j:32010**

32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}

Alexander, Herbert J. (*with* Wermer, John) Linking numbers and boundaries of varieties. **2001g:32020**
Barlet, Daniel (*with* Maire, H.-M.) Poles of the current $|f|^{2\lambda}$ over an isolated singularity. (English summary) **2001k:32015**
Bassanelli, Giovanni A geometrical application of the product of two positive currents. (English summary) **2001k:32016**
Berenstein, Carlos A. (*with* Yger, Alain) Analytic residue theory in the non-complete intersection case. (English summary) **2001m:32018**
Biel, Mongi Lieu des points exceptionnels et cône tangent multidirectionnel d'un courant positif fermé. (English and French summaries) [Locus of exceptional points and multidirectional tangent cone of a closed positive current] **2001a:32011**
Buruchenko, N. A. Some variants of the Poincaré theorem on tubes in the complement of surfaces in complex Euclidean and projective spaces. (Russian) **2001a:32012**
Maire, H.-M. *see* **Barlet, Daniel, 2001k:32015**
Ofman, Salomon Formule de transformation pour les courants-résidus. (English summary) [Transformation formula for residue currents] **2001g:32021**
Pedan, Yu. V. On the determination of the residues of rational functions of two variables from cycles that correspond to cuts. (Russian) **2001f:32011**
Wermer, John *see* **Alexander, Herbert J., 2001g:32020**
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Ben Messaoud, Hedi (*with* ElMir, Hassine) Opérateur de Monge-Ampère et tranchage des courants positifs fermés. [Monge-Ampère operator and slicing of closed positive currents] **2001j:32037**
Dinh, Tien-Cuong Mesures orthogonales à support compact de longueur finie et applications. [Orthogonal measures with compact support of finite length and applications] **2001h:32015**
ElMir, Hassine *see* **Ben Messaoud, Hedi, 2001j:32037**
Fornæss, John Erik (*with* Weickert, Brendan) Random iteration in $\mathbf{P}^k$. (English summary) **2001j:32016**
Harris, Bruno (*with* Wang, Bin[7]) Height pairings asymptotics and Bott-Chern forms. **2001f:32040**
Hill, C. Denson (*with* Nacinovich, Mauro) Leray residues and Abel's theorem in CR codimension k. **2001g:32086**
Lescure, F. Errata: "Total cohomology and invariant Dolbeault currents" [J. Reine Angew. Math. 475 (1996), 103–136; MR 98a:32041]. (French) **2001f:32032**
Luo, Huazhang Geometric criterion for Gieseker-Mumford stability of polarized manifolds. **2001b:32035**
Nacinovich, Mauro *see* **Hill, C. Denson, 2001g:32086**
Passare, Mikael (*with* Tsikh, A. K.; Yger, Alain) Residue currents of the Bochner-Martinelli type. (English summary) **2001i:32006**
Puletsky, Evgeny A. Disk envelopes of functions. II. (English summary) **2001c:32017**
Rigat, Stéphane Prolongement de courants positifs fermés à travers des variétés CR. (English and French summaries) [Continuation of closed positive currents across CR manifolds] **2001e:32052**
Skoda, Henri Présence de l'œuvre de Pierre Lelong dans les grands thèmes de recherches d'aujourd'hui. (English and French summaries) [The presence of the work of Pierre Lelong in the big picture of modern research] **2001h:32001**
Tsikh, A. K. *see* **Passare, Mikael et al., 2001i:32006**
Wang, Bin[7] *see* **Harris, Bruno, 2001f:32040**
Weickert, Brendan *see* **Fornæss, John Erik, 2001j:32016**
Yger, Alain *see* **Passare, Mikael et al., 2001i:32006**

32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

Bratti, Giuliano Remarks on the strong disk theorem for coherent sheaves in $\mathbf{C}^2$. (Italian. English summary) **2001m:32019**
Ebrahimi, Mohammad (*with* Gerami, N.; Nekooei, R.) Preholomorphic sections on complex manifolds. (English summary) **2001h:32014**
Gerami, N. *see* **Ebrahimi, Mohammad et al., 2001h:32014**

Mozo Fernández, Jorge Cohomology theorems for asymptotic sheaves. (English summary) **2001g:32022**
Nekooei, R. *see* **Ebrahimi, Mohammad et al., 2001h:32014**

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Gajer, Paweł Geometry of higher connections. (English summary) **2001g:14033**
Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) On Serre duality. (English and French summaries) **2001f:32012**
— (*with* Leiterer, Jürgen) Malgrange's vanishing theorem in 1-concave CR manifolds. (English summary) **2001a:32029**
Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 2001a:32029** *and* **2001f:32012**
Lescure, F. Annulation d'une deuxième différentielle. [Vanishing of a second differential] **2001m:32047**
Pedan, Yu. V. On the determination of the residues of rational functions of two variables from cycles that correspond to cuts. (Russian) **2001f:32011**
Tognoli, Alberto Some results in the theory of real analytic spaces and of real algebraic varieties. **2001h:32012**

32C36 Local cohomology of analytic spaces

Nakamura, Yayoi Local cohomology and ideal of partial differential operators. **2001g:32023**
— *see also* **Tajima, Shin-ichi, 2001b:32012**
Tajima, Shin-ichi (*with* Nakamura, Yayoi) Computation of residues of multivariable rational functions. (Japanese) **2001b:32012**
— Computation of the Grothendieck duality and the multivariable Hermite complement. (Japanese) **2001b:32013**

32C37 Duality theorems

Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) On Serre duality. (English and French summaries) **2001f:32012**
Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 2001f:32012**

32C38 Sheaves of differential operators and their modules, D-modules [see also 14F10, 16S32, 35A27, 58J15]

Brevet, Guillaume Irrégularité d'un $\mathscr{D}$-module holonome le long d'une courbe plane. (English and French summaries) [Irregularity of a holonomic $\mathscr{D}$-module along a plane curve] **2001d:32008**
D'Agnolo, Andrea Sheaves and $\mathscr{D}$-modules in integral geometry. (English summary) **2001i:32013**
Frot, Jean-Louis Correspondance d'Andreotti-Norguet et $\mathscr{D}$-modules. (English and French summaries) [Andreotti-Norguet correspondence and $\mathscr{D}$-modules] **2001b:32014**
Laurent, Yves (*with* Mebkhout, Zoghman) Pentes algébriques et pentes analytiques d'un $\mathscr{D}$-module. (English and French summaries) [Algebraic and analytic slopes of a $\mathscr{D}$-module] **2001b:32015**
Majima, Hideyuki Irregularities on hyperplanes of holonomic $\mathscr{D}$-module (especially defined by confluent hypergeometric partial differential equations). **2001g:32024**
Malgrange, Bernard La variété caractéristique d'un système différentiel analytique. (English and French summaries) [The characteristic variety of an analytic differential system] **2001m:32020**
Marastoni, Corrado Integral transforms for $\mathscr{D}$-modules and homogeneous manifolds. **2001g:32025**
Mebkhout, Zoghman *see* **Laurent, Yves, 2001b:32015**
Nakamura, Yayoi (*with* Tajima, Shin-ichi) Residue calculus with differential operator. **2001i:32014**
— *see also* **Tajima, Shin-ichi, (2001f:35006)**
Oaku, Toshinori A localization algorithm for D-modules and its application. (*see* **2001f:35006**)
Tajima, Shin-ichi (*with* Nakamura, Yayoi) Conjectures about the differential operators in an algorithm for computing the residues. (*see* **2001f:35006**)
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Items with secondary classifications in 32C38

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Sabbah, Claude Équations différentielles à points singuliers irréguliers et phénomène de Stokes en dimension 2. (English and French summaries) [Differential equations with irregular singular points and the Stokes phenomenon in dimension 2] **2001j:32029**
Saito, Mutsumi (*with* Sturmfels, Bernd; Takayama, Nobuki) ★ Gröbner deformations of hypergeometric differential equations. (English summary) **2001i:13036**
Sturmfels, Bernd *see* **Saito, Mutsumi et al., 2001i:13036**
Tajima, Shin-ichi Computation of the Grothendieck duality and the multivariable Hermite complement. (Japanese) **2001b:32013**
Takayama, Nobuki *see* **Saito, Mutsumi et al., 2001i:13036**
Torrelli, Tristan Équations fonctionnelles pour une fonction sur une intersection complète quasi homogène à singularité isolée. (English and French summaries) [Functional equations for a function on a weighted-homogeneous isolated complete intersection singularity] **2001e:32042**
— Un calcul de polynôme de Bernstein associé à un faisceau de coniques non dégénéré. (English and French summaries) [A computation of the Bernstein polynomial associated with a nondegenerate pencil of conics] **2001g:32068**

32Dxx Analytic continuation

Jarnicki, Marek (*with* Pflug, Peter) ★ Extension of holomorphic functions. **2001k:32017**
Pflug, Peter *see* **Jarnicki, Marek, 2001k:32017**

32D05 Domains of holomorphy

Jakóbczak, Piotr Preimages of exceptional sets by biholomorphic mappings. (English summary) **2001k:32018**
Sergeev, Armen G. (*with* Zhou, Xiang Yu) The extended future tube conjecture. (Russian. Russian summary) **2001m:32021**
Zhou, Xiang Yu *see* **Sergeev, Armen G., 2001m:32021**

Items with secondary classifications in 32D05

Fukushima, Yukio *see* **Kajiwara, Joji et al., 2001m:32044**
Kajiwara, Joji (*with* Fukushima, Yukio; Li, Lin; Li, Xia Dong) Characterizations of holomorphy of domains through validity of Theorem A, B or Oka's principle. (English summary) **2001m:32044**
Li, Lin *see* **Kajiwara, Joji et al., 2001m:32044**
Li, Xia Dong Sheaves of relations over infinite dimensional domains. (English summary) **2001a:32028**
— *see also* **Kajiwara, Joji et al., 2001m:32044**

32D10 Envelopes of holomorphy

Harita, Mitsuru Envelopes of meromorphy of domains over infinite dimensional complex projective spaces. (English summary) **2001a:32013**
Sechkin, G. I. Fundamental problems of star-like analysis. (Russian. English summary) **2001f:32013**
Skwarczyński, Maciej Bochner's tube theorem. (Polish) **2001m:32022**

Items with secondary classifications in 32D10

Casadio Tarabusi, Enrico (*with* Iannuzzi, Andrea; Trapani, Stefano) Globalizations, fiber bundles, and envelopes of holomorphy. (English summary) **2001f:32035**
Colţoiu, Mihnea (*with* Diederich, Klas) On Levi's problem on complex spaces and envelopes of holomorphy. **2001b:32017**
Diederich, Klas *see* **Colţoiu, Mihnea, 2001b:32017**
Dinh Huy Hoang *see* **Do Duc Thai, 2001b:32038**
Do Duc Thai (*with* Dinh Huy Hoang) Continuous linear extension operators on spaces of holomorphic functions on closed subgroups of a complex Lie group. (English summary) **2001b:32038**
Iannuzzi, Andrea *see* **Casadio Tarabusi, Enrico et al., 2001f:32035**
Oeljeklaus, Karl (*with* Sacré, Christine) Variétés Cauchy-Riemann homogènes et enveloppes holomorphes. [Homogeneous Cauchy-Riemann manifolds and envelopes of holomorphy] **2001g:32084**
Sacré, Christine *see* **Oeljeklaus, Karl, 2001g:32084**
Trapani, Stefano *see* **Casadio Tarabusi, Enrico et al., 2001f:32035**

32D15 Continuation of analytic objects

Adachi, Kenzō H^p and L^p extensions of holomorphic functions from subvarieties to some convex domains. (English summary) **2001e:32009**
— Continuation of holomorphic functions from subvarieties to pseudoconvex domains. (*see* **2001h:00019**)
Banh, Tong Thanh Holomorphic extendibility of functions via nonlinear Fourier transforms. (English summary) **2001k:32019**
Diederich, Klas (*with* Mazzilli, Emmanuel) A remark on the theorem of Ohsawa-Takegoshi. **2001f:32014**
Dingoyan, Pascal Un phénomène de Hartogs dans les variétés projectives. (English summary) [A Hartogs phenomenon for projective varieties] **2001b:32016**
Dinh, Tien-Cuong Conjecture de Globevnik-Stout et théorème de Morera pur une chaîne holomorphe. (English and French summaries) [Globevnik-Stout conjecture and Morera theorem for a holomorphic chain] **2001a:32014**
Harris, Adam (*with* Tonegawa, Yoshihiro) Analytic continuation of vector bundles with L^p-curvature. (English summary) **2001i:32015**
Ivashkovich, Sergei (*with* Silva, Alessandro) The Hartogs-type extension theorem for meromorphic mappings into q-complete complex spaces. (Italian summary) **2001a:32015**
Mazzilli, Emmanuel *see* **Diederich, Klas, 2001f:32014**
Sharipov, R. A. *see* **Tsyganov, E. N., 2001m:32023**
Silva, Alessandro *see* **Ivashkovich, Sergei, 2001a:32015**
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Tsyganov, E. N. (*with* Sharipov, R. A.) Separate algebraicity along families of algebraic curves. (Russian. Russian summary) **2001m:32023**
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Items with secondary classifications in 32D15

Antipova, I. A. Application of a logarithmic differential to the problem of the holomorphic continuation of CR-hyperfunctions. (Russian. Russian summary) **2001k:32059**
Baouendi, M. Salah (*with* Ebenfelt, P.; Rothschild, Linda Preiss) Convergence and finite determination of formal CR mappings. **2001h:32063**
Demailly, Jean-Pierre On the Ohsawa-Takegoshi-Manivel L^2 extension theorem. (English and French summaries) **2001m:32041**
Dingoyan, Pascal Convexity and Hartogs's theorem in some open subset of a projective manifold. (English summary) **2001i:32020**
Ebenfelt, P. *see* **Baouendi, M. Salah et al., 2001h:32063**
Fukushima, Yukio Extension of pluriharmonic functions in locally convex spaces. **2001j:32038**
Ivashkovich, Sergei An example concerning extension and separate analyticity properties of meromorphic mappings. (English summary) **2001d:32021**

Kodama, Akio A remark on generalized complex ellipsoids with spherical boundary points. (English summary) **2001i:32001**
Kosbergenov, S. A multidimensional boundary Morera theorem for the ball and the polydisk. (Russian. English and Uzbek summaries) **2001m:32025**
Leray, Jean Prolongements analytiques de la solution d'un système différentiel holomorphe non linéaire. [Analytic continuations of the solution of a nonlinear holomorphic differential system] **2001f:34178**
Mazzilli, Emmanuel Un exemple d'obstruction géométrique à l'extension des fonctions holomorphes bornées. [Example of geometric obstruction to the extension of bounded holomorphic functions] **2001k:32055**
Nacinovich, Mauro (*with* Schulze, Bert-Wolfgang; Tarkhanov, Nikolai N.) On Carleman formulas for the Dolbeault cohomology. (English summary) **2001m:32007**
Ohsawa, Takeo Relationship of interpolation problems and division problems. (Japanese) (*see* **2001h:00019**)
— On the extension of L^2 holomorphic functions. V. Effects of generalization. (English summary) **2001m:32011**
Rothschild, Linda Preiss *see* **Baouendi, M. Salah et al., 2001h:32063**
Schulze, Bert-Wolfgang *see* **Nacinovich, Mauro et al., 2001m:32007**
Shafikov, Rasul Analytic continuation of germs of holomorphic mappings between real hypersurfaces in $\mathbf{C}^n$. **2001g:32045**
Tarkhanov, Nikolai N. *see* **Nacinovich, Mauro et al., 2001m:32007**

32D20 Removable singularities

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(Luk, Hing Sun) *see* **Fefferman, Charles, 2001f:32015**
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32D26 Riemann domains

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32D99 None of the above, but in this section

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32Exx Holomorphic convexity

32E05 Holomorphically convex complex spaces, reduction theory

Miyazawa, Kazuhisa Cohomologically completeness of unramified covering spaces with parameters. **2001a:32016**

Items with secondary classifications in 32E05

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32E10 Stein spaces, Stein manifolds

Globevnik, Josip Discs in Stein manifolds. **2001k:32021**

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Darko, Patrick W. L^2 estimates for the $\overline{\partial}$ operator on Stein manifolds. (English summary) **2001b:32076**
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— Homotopy formulas and $\overline{\partial}$-equations with weight factors on local q-convex domains in Stein manifolds. (Chinese. English and Chinese summaries) **2001d:32052**
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32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation

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Darko, Patrick W. (*with* Einstein-Matthews, S. M.; Lutterodt, C. H.) On rational approximation in a ball in $\mathbf{C}^N$. (English summary) **2001e:32010**

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Lempert, László Approximation de fonctions holomorphes d'un nombre infini de variables. (English and French summaries) [Approximation of holomorphic functions of infinitely many variables] **2001d:32027**
— Approximation of holomorphic functions of infinitely many variables. II. (English and French summaries) **2001g:32052**
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32E35 Global boundary behavior of holomorphic functions

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32E40 The Levi problem

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32Fxx Geometric convexity

32F10 q-convexity, q-concavity

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Ivashkovich, Sergei (*with* Silva, Alessandro) The Hartogs-type extension theorem for meromorphic mappings into q-complete complex spaces. (Italian summary) **2001a:32015**
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32F17 Other notions of convexity

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32F18 Finite-type conditions

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32F27 Topological consequences of geometric convexity

Items with secondary classifications in 32F27

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32F45 Invariant metrics and pseudodistances

Cho, Sanghyun (*with* Lim, Jongchun) Lower bounds on the holomorphic sectional curvature of the Bergman metric on locally convex domains in $\mathbf{C}^n$. (English summary) **2001d:32012**
Isaev, Alexander V. (*with* Krantz, Steven G.) Invariant distances and metrics in complex analysis. **2001a:32017**
Isidro, José María[1] (*with* Vigué, Jean-Pierre) On the product property of the Carathéodory pseudodistance. (English and Italian summaries) **2001i:32022**
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Vigué, Jean-Pierre Géodésiques complexes et rétractes holomorphes de dimension 1. [Complex geodesics and holomorphic retracts of dimension 1] **2001a:32018**
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Zwonek, Włodzimierz On Bergman completeness of pseudoconvex Reinhardt domains. (English and French summaries) **2001b:32019**
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Nivoche, Stéphanie Geometric properties of pluricomplex Green functions with one or several poles in $\mathbb{C}^n$. **2001f:32057**
Oeljeklaus, Eberhard (*with* Schmerling, C.) Hyperbolicity properties of quotient surfaces by freely operating arithmetic lattices. (English and French summaries) **2001j:32021**
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32F99 None of the above, but in this section

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32Gxx Deformations of analytic structures

32G05 Deformations of complex structures [see also 13D10, 16S80, 58H10, 58H15]

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Jin, Lu[1] On the stability of Bergman metric in the deformation of complex manifolds. (English summary) **2001c:32008**
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Li, Qing Zhong (*with* Zhang, Jinhao) On the moduli space of non-primary Hopf surfaces. (English and Chinese summaries) **2001j:32017**
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32G07 Deformations of special (e.g. CR) structures

Akahori, Takao (*with* Miyajima, Kimio) A smoothness of deformations of normal strongly pseudo-convex CR-structures. **2001c:32009**
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32G08 Deformations of fiber bundles

Items with secondary classifications in 32G08

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Matuschke, Andreas On framed instanton bundles and their deformations. (English summary) **2001f:14025**

32G10 Deformations of submanifolds and subspaces

Ballico, Edoardo The algebraic geometry and the deformation theory of the signed geodesics space. (English summary) **2001f:32020**
Barlet, Daniel How to use the cycle space in complex geometry. (English summary) **2001b:32020**
— (*with* Magnússon, Jón) Transfert de l'amplitude du fibré normal au diviseur d'incidence. (English summary) [Transfer of the ampleness of the normal bundle to the incidence divisor] **2001f:32021**
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Magnússon, Jón *see* **Barlet, Daniel, 2001f:32021**
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Items with secondary classifications in 32G10

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32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10.} [see also 14H15, 14J15]

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32G15 Moduli of Riemann surfaces, Teichmüller theory [see also 14H15, 30Fxx]

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32G20 Period matrices, variation of Hodge structure; degenerations [see also 14D05, 14D07, 14K30]

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Kato, Kazuya (*with* Usui, Sampei) Logarithmic Hodge structures and classifying spaces. (English summary) **2001e:14009**
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32G34 Moduli and deformations for ordinary differential equations (e.g. Khnizhnik-Zamolodchikov equation) [see also 34Mxx]

Aomoto, Kazuhiko q-difference de Rham complex and Čech cohomology (an essay on basic hypergeometric functions) [translation of Sūgaku **49** (1997), no. 4, 350–364; MR 99f:32029]. (*see* **2001e:00032**)
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— (*with* Tarasov, V. O.; Varchenko, A. N.) Monodromy of solutions of the elliptic quantum Knizhnik-Zamolodchikov-Bernard difference equations. (English summary) **2001b:32029**
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— (*with* Varchenko, A. N.) Remarks on critical points of phase functions and norms of Bethe vectors. (English summary) **2001j:32012**
Nakayashiki, Atsushi (*with* Pakulyak, S. Z.; Tarasov, V. O.) On solutions of the KZ and qKZ equations at level zero. (English and French summaries) **2001f:32024**
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Corel, Eduardo ★ Exposants, réseaux de Levelt et relations de Fuchs pour les systèmes différentiels réguliers. (French. French summary) [Exponents, Levelt lattices and Fuchs relations for regular differential systems] **2001f:34173**
Dubrovin, Boris (*with* Mazzocco, M.) Monodromy of certain Painlevé-VI transcendents and reflection groups. (English summary) **2001j:34114**
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Felder, Giovanni (*with* Tarasov, V. O.; Varchenko, A. N.) Solutions of the elliptic qKZB equations and Bethe ansatz. I. **2001g:17026**
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Kapovich, Michael (*with* Millson, John J.) Quantization of bending deformations of polygons in $\mathbf{E}^3$, hypergeometric integrals and the Gassner representation. (English summary) **2001m:53159**
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Manin, Yurii Ivanovich ★ Frobenius manifolds, quantum cohomology, and moduli spaces. (English summary) **2001g:53156**
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32G81 Applications to physics

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— (*with* Lazzarini, S.) The role of complex structures in w-symmetry. (English summary) **2001i:81105**
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Kashaev, Rinat M. The Liouville central charge in quantum Teichmüller theory. (Russian. Russian summary) **2001h:81139**
Kholodenko, Arkady L. Boundary conformal field theories, limit sets of Kleinian groups and holography. (English summary) **2001i:81250**
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Mohri, Kenji Kähler moduli space for a D-brane at orbifold singularities. (English summary) **2001b:14020**
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Witten, Edward Heterotic string conformal field theory and A-D-E singularities. (English summary) **2001h:81219**

32Hxx Holomorphic mappings and correspondences

32H02 Holomorphic mappings, (holomorphic) embeddings and related questions

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Bayoumi, Aboubakr Fixed points of holomorphic mappings on non convex bounded domains in $\mathbf{C}^n$. (English and Polish summaries) **2001f:32025**
Bracci, Filippo Fixed points of commuting holomorphic maps without boundary regularity. (English summary) **2001g:32039**
Buzzard, Gregery T. (*with* Forstnerič, Franc) An interpolation theorem for holomorphic automorphisms of $\mathbf{C}^n$. (English summary) **2001d:32020**
Chen, Huaihui (*with* Gauthier, P. M.) Bloch constants in several variables. (English summary) **2001m:32035**
Curt, Paula (*with* Răducanu, Dorina) Loewner chains and univalence criteria. **2001k:32026**
— *see also* **Răducanu, Dorina, 2001k:32029**
Forstnerič, Franc Interpolation by holomorphic automorphisms and embeddings in $\mathbf{C}^n$. (English summary) **2001g:32040**
— *see also* **Buzzard, Gregery T., 2001d:32020**
Gauthier, P. M. *see* **Chen, Huaihui, 2001m:32035**
Godula, Janusz (*with* Liczberski, Piotr; Starkov, Viktor V.) Linearly invariant families of mappings of a ball in $\mathbf{C}^N$. (Russian. English and Russian summaries) **2001e:32021**
— (*with* Liczberski, Piotr; Starkov, Viktor V.) Order of linearly invariant family of mappings in $\mathbf{C}^n$. (English summary) **2001e:32020**
Gong, Sheng (*with* Liu, Tai Shun) Distortion theorems for biholomorphic convex mappings on bounded convex circular domains. (English summary) **2001e:32022**
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— (*with* Kohr, Gabriela) Univalent C^1 mappings on the unit ball in $\mathbf{C}^n$. (English summary) **2001e:32023**
— (*with* Kohr, Gabriela; Liczberski, Piotr) General partial differential subordinations for holomorphic mappings in complex Banach spaces. (English summary) **2001j:32014**
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Kohr, Gabriela *see* **Hamada, Hidetaka et al., 2001a:32022; 2001e:32023; 2001j:32014; Graham, Ian et al., 2001g:32041** *and* **2001j:32013**
Kohr, Mirela *see* **Graham, Ian et al., 2001g:32041**
Liczberski, Piotr (*with* Połubiński, Jerzy) Some remarks on Janiec uniqueness theorem for holomorphic mappings in $\mathbf{C}^n$. (English summary) **2001g:32043**
— *see also* **Godula, Janusz et al., 2001e:32020; 2001e:32021** *and* **Hamada, Hidetaka et al., 2001j:32014**
Liu, Hao[1] Linearly invariant families of biholomorphic mappings on the unit ball. (Chinese. Chinese summary) **2001c:32011**
— (*with* Lu, Ke Ping) Two subclasses of starlike mappings in several complex variables. (Chinese. Chinese summary) **2001h:32022**
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MacCluer, Barbara D. Commuting analytic self-maps of the ball. (English summary) **2001g:32044**
Mir, Nordine Formal biholomorphic maps of real analytic hypersurfaces. (English summary) **2001k:32027**
Pfaltzgraff, John A. (*with* Suffridge, Ted J.) An extension theorem and linear invariant families generated by starlike maps. (English summary) **2001h:32023**
— (*with* Suffridge, Ted J.) Norm order and geometric properties of holomorphic mappings in $\mathbf{C}^n$. (English summary) **2001k:32028**
Połubiński, Jerzy *see* **Liczberski, Piotr, 2001g:32043**
Răducanu, Dorina (*with* Curt, Paula) Univalence criteria for holomorphic mappings in $\mathbf{C}^n$. (English summary) **2001k:32029**
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Shafikov, Rasul Analytic continuation of germs of holomorphic mappings between real hypersurfaces in $\mathbf{C}^n$. **2001g:32045**
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Youssfi, El Hassan *see* **Ahern, Patrick, 2001e:32019**
Zaitsev, Dmitri Algebraicity of local holomorphisms between real-algebraic submanifolds of complex spaces. **2001a:32024**
Zhang, Wen Jun[1] *see* **Liu, Tai Shun, 2001a:32023**

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Buzzard, Gregery T. (*with* Lu, Steven S.-Y.) Double sections, dominating maps, and the Jacobian fibration. (English summary) **2001m:32053**
— (*with* Hubbard, John Hamal) A Fatou-Bieberbach domain avoiding a neighborhood of a variety of codimension 2. **2001d:32024**
Cantat, Serge Deux exemples concernant une conjecture de Serge Lang. (English and French summaries) [Two examples related to a conjecture of Serge Lang] **2001i:32040**
Do Duc Thai (*with* Mai, Nguyen Thi Tuyet) Hartogs-type extension theorems for separately holomorphic mappings on compact sets. (English summary) **2001k:32020**
Gromov, Mikhael L. Topological invariants of dynamical systems and spaces of holomorphic maps. I. (English summary) **2001j:37037**
Haegemans, Ann *see* **Kravanja, Peter, 2001k:32002**
Hubbard, John Hamal *see* **Buzzard, Gregery T., 2001d:32024**
Jakóbczak, Piotr Preimages of exceptional sets by biholomorphic mappings. (English summary) **2001k:32018**
Kravanja, Peter (*with* Haegemans, Ann) Multidimensional analytic deflation. **2001k:32002**
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Miller, Sanford S. (*with* Mocanu, Petru T.) ★ Differential subordinations. (English summary) **2001e:30036**
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Shananina, E. N. Models of CR-manifolds of type $(1, K)$ for $3 \leq K \leq 7$ and their automorphisms. (Russian. Russian summary) **2001h:32064**
Stanton, Nancy K. Real hypersurfaces with no infinitesimal CR automorphisms. **2001h:32065**
Van Trao, Nguyen Disks extremal with respect to interpolation constants. (English summary) **2001j:32002**

32H04 Meromorphic mappings

Ivashkovich, Sergei An example concerning extension and separate analyticity properties of meromorphic mappings. (English summary) **2001d:32021**
Sun, Dao Chun *see* **Zhou, Ze Hua, 2001i:32025**
Zhou, Ze Hua (*with* Sun, Dao Chun) Quasimeromorphic mappings of several complex variables. (English summary) **2001i:32025**

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Mori, Seiki Elimination of defects of meromorphic mappings by small deformation. **2001g:32046**
Shirosaki, Manabu A hypersurface which determines linearly non-degenerate holomorphic mappings. **2001b:32030**

32H12 Boundary uniqueness of mappings

Bracci, Filippo Commuting holomorphic maps. (Italian. English and Italian summaries) **2001h:32024**

32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

Edwards, Terrence (*with* Joseph, James E.; Kwack, Myung H.) Non-Hausdorff extension and convergence theorems motivated by generalizations of the big Picard theorem. (English summary) **2001f:32026**
Joseph, James E. *see* **Edwards, Terrence et al., 2001f:32026**
Kwack, Myung H. *see* **Edwards, Terrence et al., 2001f:32026**
Shirosaki, Manabu A hypersurface which determines linearly non-degenerate holomorphic mappings. **2001b:32030**

Items with secondary classifications in 32H25

Vojta, Paul Diagonal quadratic forms and Hilbert's tenth problem. (English summary) **2001k:11260**

32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}

Adachi, Yukinobu On value distribution of entire maps of $\mathbf{C}^2$ to $\mathbf{C}^2$. **2001d:32022**
Aihara, Yoshihiro Unicity theorems for meromorphic mappings with deficiencies. (English summary) **2001e:32024**
Dektyarev, I. M. Multivariable value distribution theory. Application to holomorphic curves. **2001b:32031**
— Equidistribution of divisors for sequences of holomorphic curves. (Russian. Russian summary) **2001k:32030**
Hu, Pei Chu (*with* Yang, Chung-Chun) Theory of the value distribution of p-adic meromorphic functions. (Russian. English and Russian summaries) **2001a:32025**
Kobayashi, Ryoichi Holomorphic curves in abelian varieties: the second main theorem and applications. **2001k:32031**
Mori, Seiki Elimination of defects of meromorphic mappings by small deformation. **2001g:32046**
Noguchi, Junjiro (*with* Winkelmann, Jörg; Yamanoi, Katsutoshi) The value distribution of holomorphic curves into semi-abelian varieties. (English and French summaries) **2001j:32015**
Shirosaki, Manabu (*with* Ueda, Masatsugu) An analogue of Yi's theorem to holomorphic mappings. (English summary) **2001k:32032**
Ueda, Masatsugu *see* **Shirosaki, Manabu, 2001k:32032**
Winkelmann, Jörg *see* **Noguchi, Junjiro et al., 2001j:32015**
Yamanoi, Katsutoshi *see* **Noguchi, Junjiro et al., 2001j:32015**
Yang, Chung-Chun *see* **Hu, Pei Chu, 2001a:32025**

Items with secondary classifications in 32H30

Ru, Min A note on p-adic Nevanlinna theory. **2001h:11097**
Vojta, Paul Nevanlinna theory and Diophantine approximation. (English summary) **2001j:11072**
Wang, Julie Tzu-Yueh Cartan's conjecture with moving targets of same growth and effective Wirsing's theorem over function fields. (English summary) **2001g:11124**

32H35 Proper mappings, finiteness theorems

Berteloot, François (*with* Patrizio, Giorgio) A Cartan theorem for proper holomorphic mappings of complete circular domains. **2001k:32033**
Černe, Miran (*with* Globevnik, Josip) On holomorphic embedding of planar domains into $\mathbf{C}^2$. **2001g:32047**
D'Angelo, John P. Positivity conditions and squared norms of holomorphic polynomial mappings. (English summary) **2001h:32025**
Globevnik, Josip *see* **Černe, Miran, 2001g:32047**
Li, Song-Ying (*with* Ni, Lei) On the holomorphicity of proper harmonic maps between unit balls with the Bergman metrics. **2001a:32026**
Ni, Lei *see* **Li, Song-Ying, 2001a:32026**
Patrizio, Giorgio *see* **Berteloot, François, 2001k:32033**

Items with secondary classifications in 32H35

Bloom, Thomas (*with* Calvi, Jean-Paul) On multivariate minimal polynomials. (English summary) **2001j:32036**
Calvi, Jean-Paul *see* **Bloom, Thomas, 2001j:32036**
Globevnik, Josip Discs in Stein manifolds. **2001k:32021**
Liu, Tai Shun (*with* Zhang, Wen Jun[1]) A distortion theorem for biholomorphic convex mappings in $\mathbf{C}^n$. (Chinese. Chinese summary) **2001a:32023**
Miyazawa, Kazuhisa Cohomologically completeness of unramified covering spaces with parameters. **2001a:32016**
Rodak, Tomasz (*with* Spodzieja, Stanisław) On some characterization of proper polynomial mappings. (English summary) **2001e:14061**
Spodzieja, Stanisław *see* **Rodak, Tomasz, 2001e:14061**
Zhang, Wen Jun[1] *see* **Liu, Tai Shun, 2001a:32023**

32H40 Boundary regularity of mappings

Items with secondary classifications in 32H40

Bracci, Filippo Fixed points of commuting holomorphic maps without boundary regularity. (English summary) **2001g:32039**

32H50 Iteration problems

Abate, Marco Diagonalization of nondiagonalizable discrete holomorphic dynamical systems. (English summary) **2001m:32036**
Astala, Kari (*with* Balogh, Zoltan M.; Reimann, Hans Martin) Lempert mappings and holomorphic motions in $\mathbf{C}^n$. (English and French summaries) **2001d:32023**
Balogh, Zoltan M. *see* **Astala, Kari et al., 2001d:32023**
Bedford, Eric (*with* Jonsson, Mattias) Dynamics of regular polynomial endomorphisms of $\mathbf{C}^k$. (English summary) **2001c:32012**
Buzzard, Gregery T. (*with* Hubbard, John Hamal) A Fatou-Bieberbach domain avoiding a neighborhood of a variety of codimension 2. **2001d:32024**
Favre, Charles Classification of 2-dimensional contracting rigid germs and Kato surfaces. I. (English and French summaries) **2001f:32027**
Fornæss, John Erik (*with* Sibony, Nessim) Complex dynamics in higher dimension. (English summary) **2001f:32028**
— (*with* Weickert, Brendan) Attractors in $\mathbf{P}^2$. (English summary) **2001e:32025**
— (*with* Weickert, Brendan) Random iteration in $\mathbf{P}^k$. (English summary) **2001j:32016**
— (*with* Sibony, Nessim) Dynamics of $\mathbf{P}^2$ (examples). **2001k:32034**
Hubbard, John Hamal *see* **Buzzard, Gregery T., 2001d:32024**
Jin, Teisuke Dynamics of polynomial automorphisms of $\mathbf{C}^2$: stable and unstable manifolds. (English summary) (*see* **2001h:37090**)
Jonsson, Mattias *see* **Bedford, Eric, 2001c:32012**
Klimek, Maciej Inverse iteration systems in $\mathbf{C}^n$. **2001m:32037**
Maegawa, Kazutoshi Shift-like mappings of dynamical degree golden ratio of $\mathbf{C}^3$. (*see* **2001h:37090**)
Reimann, Hans Martin *see* **Astala, Kari et al., 2001d:32023**
Sibony, Nessim Dynamique des applications rationnelles de $\mathbf{P}^k$. (English and French summaries) [Dynamics of rational maps of $\mathbf{P}^k$] **2001e:32026**
— *see also* **Fornæss, John Erik, 2001f:32028** *and* **2001k:32034**
Weickert, Brendan *see* **Fornæss, John Erik, 2001e:32025** *and* **2001j:32016**
Yamagishi, Yoshikazu Cantor bouquet of holomorphic stable manifolds for a periodic indeterminate point. (English summary) (*see* **2001h:37090**)

Items with secondary classifications in 32H50

Abarenkova, N. (*with* Anglès d'Auriac, J.-Ch.; Boukraa, S.; Maillard, J.-M.) Real topological entropy versus metric entropy for birational measure-preserving transformations. (English summary) **2001e:37004**
Anglès d'Auriac, J.-Ch. *see* **Abarenkova, N. et al., 2001e:37004**
Bellon, M. P. Algebraic entropy of birational maps with invariant curves. (English summary) **2001b:37066**
Boukraa, S. *see* **Abarenkova, N. et al., 2001e:37004**
Buzzard, Gregery T. Nondensity of stability for polynomial automorphisms of $\mathbf{C}^2$. (English summary) **2001a:37058**
— Extensions of Hénon maps to the closed 4-ball. (English summary) **2001i:37066**
Cerveau, Dominique (*with* Ghys, Étienne; Sibony, Nessim; Yoccoz, Jean-Christophe) ★ Dynamique et géométrie complexes. (French) [Complex dynamics and geometry] **2001a:37002**
Diller, Jeffrey (*with* Jonsson, Mattias) Topological entropy on saddle sets in $\mathbf{P}^2$. **2001b:37070**
Ghys, Étienne *see* **Cerveau, Dominique et al., 2001a:37002**
Hubbard, John Hamal (*with* Papadopol, Peter; Veselov, Vladimir) A compactification of Hénon mappings in $\mathbf{C}^2$ as dynamical systems. **2001f:37056**
Jonsson, Mattias *see* **Diller, Jeffrey, 2001b:37070**
Kosek, Marta Iteration of polynomial mappings on algebraic sets. (English summary) **2001m:37083**
Maillard, J.-M. *see* **Abarenkova, N. et al., 2001e:37004**
Papadopol, Peter *see* **Hubbard, John Hamal et al., 2001f:37056**
Peng, Guiai On the dynamics of nondegenerate polynomial endomorphisms of $\mathbf{C}^2$. (English summary) **2001d:37055**
Sibony, Nessim *see* **Cerveau, Dominique et al., 2001a:37002**
Ueda, Tetsuo Normal forms of attracting holomorphic maps. **2001d:37059**
Veselov, Vladimir *see* **Hubbard, John Hamal et al., 2001f:37056**
Yamagishi, Yoshikazu Cantor-bouquet of holomorphic stable manifolds for a periodic indeterminate point. (English summary) **2001k:37067**
Yoccoz, Jean-Christophe *see* **Cerveau, Dominique et al., 2001a:37002**

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Complex dynamics and geometry *see* **Cerveau, Dominique et al., 2001a:37002**
Dynamique et géométrie complexes *see* **Cerveau, Dominique et al., 2001a:37002**
Lyon *see* **Cerveau, Dominique et al., 2001a:37002**
Meeting:
State of the Art of the Research of the Société Mathématique de France *see* **Cerveau, Dominique et al., 2001a:37002**

32H99 None of the above, but in this section

Items with secondary classifications in 32H99

Chen, Huaihui (*with* Gauthier, P. M.) Bloch constants in several variables. (English summary) **2001m:32035**
Gauthier, P. M. *see* **Chen, Huaihui, 2001m:32035**
Kaup, Wilhelm On a Schwarz lemma for bounded symmetric domains. **2001b:46072**
MacCluer, Barbara D. Commuting analytic self-maps of the ball. (English summary) **2001g:32044**

32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx.}

32J05 Compactification of analytic spaces

Abe, Makoto² (*with* Furushima, Mikio; Yamasaki, Mitsuhiro) Analytic compactifications of $\mathbf{C}^2/G$. **2001g:32048**
Furushima, Mikio *see* **Abe, Makoto² et al., 2001g:32048**
MacPherson, Robert D. (*with* Procesi, Claudio) Making conical compactifications wonderful. **2001b:32032**
Procesi, Claudio *see* **MacPherson, Robert D., 2001b:32032**
Yamasaki, Mitsuhiro *see* **Abe, Makoto² et al., 2001g:32048**

Items with secondary classifications in 32J05

Favre, Charles Classification of 2-dimensional contracting rigid germs and Kato surfaces. I. (English and French summaries) **2001f:32027**

32J10 Algebraic dependence theorems

Items with secondary classifications in 32J10

Brunella, Marco On holomorphic forms on compact complex threefolds. (English summary) **2001i:32027**

32J15 Compact surfaces

Dloussky, Georges (*with* Oeljeklaus, Karl; Toma, Matei) Surfaces de la classe VII_0 admettant un champ de vecteurs. (English and French summaries) [Class-VII_0 surfaces with a vector field] **2001i:32026**
Li, Qing Zhong (*with* Zhang, Jinhao) On the moduli space of non-primary Hopf surfaces. (English and Chinese summaries) **2001j:32017**
Matumoto, Takao (*with* Nakagawa, Noriaki) Explicit description of Hopf surfaces and their automorphism groups. **2001e:32027**
Nakagawa, Noriaki *see* **Matumoto, Takao, 2001e:32027**
Nemirovskiĭ, S. Yu. Stein domains with Levi-plane boundaries on compact complex surfaces. (Russian) **2001d:32025**
Oeljeklaus, Karl *see* **Dloussky, Georges et al., 2001i:32026**
Toma, Matei *see* **Dloussky, Georges et al., 2001i:32026**
Vo Van Tan On Hartshorne's problem for compact C-analytic surfaces M with $\kappa(M) = -\infty$. (English and French summaries) **2001b:32033**
Zhang, Jinhao *see* **Li, Qing Zhong, 2001j:32017**

Items with secondary classifications in 32J15

Abe, Makoto² (*with* Furushima, Mikio; Yamasaki, Mitsuhiro) Analytic compactifications of $\mathbf{C}^2/G$. **2001g:32048**
Beauville, Arnaud Complex manifolds with split tangent bundle. (English summary) **2001f:32030**
Cantat, Serge Deux exemples concernant une conjecture de Serge Lang. (English and French summaries) [Two examples related to a conjecture of Serge Lang] **2001i:32040**
Furushima, Mikio *see* **Abe, Makoto² et al., 2001g:32048**
Stipsicz, András I. Erratum to: "Chern numbers of certain Lefschetz fibrations" [Proc. Amer. Math. Soc. **128** (2000), no. 6, 1845–1851; MR 2000j:57062]. **2001h:57035**
Toma, Matei Compact moduli spaces of stable sheaves over non-algebraic surfaces. (English summary) **2001m:32028**
Tsuboi, Syōji Infinitesimal parameter spaces of locally trivial deformations of compact complex surfaces with ordinary singularities. (English summary) **2001i:32023**
Yamasaki, Mitsuhiro *see* **Abe, Makoto² et al., 2001g:32048**

32J17 Compact 3-folds

Alessandrini, Lucia (*with* Bassanelli, Giovanni) Compact complex threefolds which are Kähler outside a smooth rational curve. (English summary) **2001h:32026**
Bassanelli, Giovanni Area-minimizing Riemann surfaces on the Iwasawa manifold. (English summary) **2001h:32027**
— *see also* **Alessandrini, Lucia, 2001h:32026**
Brunella, Marco On holomorphic forms on compact complex threefolds. (English summary) **2001i:32027**
Kreussler, Bernd Twistor spaces with a pencil of fundamental divisors. (English summary) **2001d:32026**

Items with secondary classifications in 32J17

Hosono, Shinobu Threefold and Higgs transitions in Calabi-Yau models. (Japanese) (*see* **2000k:00050**)
Lu, Peng¹ Kähler-Einstein metrics on Kummer threefold and special Lagrangian tori. (English summary) **2001a:32035**

32J18 Compact n-folds

Izawa, Takeshi Chern number formula for ramified coverings. (English summary) **2001i:32028**
Loeb, Jean-Jacques (*with* Nicolau, Marcel) On the complex geometry of a class of non-Kählerian manifolds. (English summary) **2001b:32034**
Meersseman, Laurent A new geometric construction of compact complex manifolds in any dimension. (English summary) **2001i:32029**
Nicolau, Marcel *see* **Loeb, Jean-Jacques, 2001b:32034**

Items with secondary classifications in 32J18

Beauville, Arnaud Complex manifolds with split tangent bundle. (English summary) **2001f:32030**
Bonavero, Laurent (*with* Takayama, Shigeharu) Some boundedness results for Fano-like Moishezon manifolds. (English summary) **2001d:14040**
Hong, Jaehyun Fano manifolds with geometric structures modeled after homogeneous contact manifolds. (English summary) **2001m:53128**
Takayama, Shigeharu *see* **Bonavero, Laurent, 2001d:14040**

32J25 Transcendental methods of algebraic geometry [see also 14C30]

Brudnyi, Alexander Classification theorem for a class of flat connections and representations of Kähler groups. **2001g:32049**
Hanamura, Masaki (*with* Yoshida, Masaaki) Hodge structure on twisted cohomologies and twisted Riemann inequalities. I. (English summary) **2001f:32029**
Losev, Andrei (*with* Nekrasov, Nikita A.; Shatashvili, Samson L.) On four dimensional mirror symmetry. (English summary) (*see* **2001h:81005**)
Luo, Huazhang Geometric criterion for Gieseker-Mumford stability of polarized manifolds. **2001b:32035**
Mok, Ngaiming Fibrations of compact Kähler manifolds in terms of cohomological properties of their fundamental groups. (English and French summaries) **2001k:32035**
Nekrasov, Nikita A. *see* **Losev, Andrei et al., (2001h:81005)**
Shatashvili, Samson L. *see* **Losev, Andrei et al., (2001h:81005)**
Yoshida, Masaaki *see* **Hanamura, Masaki, 2001f:32029**
Zhou, Jian Hodge theory and A_∞-structures on cohomology. **2001e:32028**

Items with secondary classifications in 32J25

Allcock, Daniel (*with* Carlson, James A.; Toledo, Domingo) A complex hyperbolic structure for moduli of cubic surfaces. (English and French summaries) **2001h:14042**
Amorós, J. (*with* Bauer, Ingrid C.) On the number of defining relations for nonfibered Kähler groups. **2001g:32050**
Bauer, Ingrid C. *see* **Amorós, J., 2001g:32050**
Birkenhake, Christina (*with* Lange, Herbert) ★ Complex tori. (English summary) **2001k:14085**
Buchweitz, Ragnar-Olaf (*with* Flenner, Hubert) The Atiyah-Chern character yields the semiregularity map as well as the infinitesimal Abel-Jacobi map. **2001c:14017**
Carlson, James A. *see* **Allcock, Daniel et al., 2001h:14042**
Demailly, Jean-Pierre On the Ohsawa-Takegoshi-Manivel L^2 extension theorem. (English and French summaries) **2001m:32041**
— Méthodes L^2 et résultats effectifs en géométrie algébrique. (French summary) [L^2-methods and effective results in algebraic geometry] **2001m:32042**
Flenner, Hubert *see* **Buchweitz, Ragnar-Olaf, 2001c:14017**
Hain, Richard Moduli of Riemann surfaces, transcendental aspects. **2001m:32030**
Lange, Herbert *see* **Birkenhake, Christina, 2001k:14085**
Rubei, Elena Lazzeri's Jacobian of oriented compact Riemannian manifolds. (English summary) **2001k:32036**
Skoda, Henri Présence de l'œuvre de Pierre Lelong dans les grands thèmes de recherches d'aujourd'hui. (English and French summaries) [The presence of the work of Pierre Lelong in the big picture of modern research] **2001h:32001**
Toledo, Domingo *see* **Allcock, Daniel et al., 2001h:14042**
Totaro, Burt Chern numbers for singular varieties and elliptic homology. **2001g:58037**
Wang, Mu-Tao On representations of complex hyperbolic lattices. (English summary) **2001a:32036**
Zheng, Fangyang ★ Complex differential geometry. **2001i:32035**

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Progress in Mathematics *see* **Birkenhake, Christina, 2001k:14085**

32J27 Compact Kähler manifolds: generalizations, classification

Amorós, J. (*with* Bauer, Ingrid C.) On the number of defining relations for nonfibered Kähler groups. **2001g:32050**
Batyrev, Victor V. Stringy Hodge numbers and Virasoro algebra. (English summary) **2001i:32030**
Bauer, Ingrid C. *see* **Amorós, J., 2001g:32050**
Beauville, Arnaud Complex manifolds with split tangent bundle. (English summary) **2001f:32030**
Campana, Frédéric (*with* Peternell, Thomas) Recent developments in the classification theory of compact Kähler manifolds. (English summary) **2001h:32028**
Chuah, Meng-Kiat Kähler structures on complex torus. (English summary) **2001f:32031**
Dumitrescu, Sorin Structures géométriques holomorphes. (English and French summaries) [Holomorphic geometric structures] **2001h:32029**
Peternell, Thomas Towards a Mori theory on compact Kähler threefolds. II. **2001a:32027**
— *see also* **Campana, Frédéric, 2001h:32028**
Rubei, Elena Lazzeri's Jacobian of oriented compact Riemannian manifolds. (English summary) **2001k:32036**

Items with secondary classifications in 32J27

Anchouche, Boudjemaâ (*with* Azad, Hassan; Biswas, Indranil) Holomorphic principal bundles over a compact Kähler manifold. (English and French summaries) **2001h:32039**
Arezzo, Claudio (*with* Micallef, M. J.) Minimal surfaces in flat tori. **2001m:53087**
Azad, Hassan *see* **Anchouche, Boudjemaâ et al., 2001h:32039**
Banfield, D. Stable pairs and principal bundles. (English summary) **2001k:53036**
Ben Abdesselem, Adnène (*with* Cherrier, Pascal) Estimation of Ricci tensor on certain Fano manifolds. (English and French summaries) **2001g:32056**
Birkenhake, Christina (*with* Lange, Herbert) ★ Complex tori. (English summary) **2001k:14085**
Biswas, Indranil (*with* Schumacher, Georg) Generalized Petersson-Weil metric on the Douady space of embedded manifolds. **2001c:32010**
— (*with* Holla, Yogish I.; Schumacher, Georg) On a characterization of finite vector bundles as vector bundles admitting a flat connection with finite monodromy group. (English summary) **2001b:32036**
— *see also* **Anchouche, Boudjemaâ et al., 2001h:32039**
Brudnyi, Alexander Classification theorem for a class of flat connections and representations of Kähler groups. **2001g:32049**
Cao, Huai-Dong (*with* Zhou, Jian) Identification of two Frobenius manifolds. (English summary) **2001f:53181**
Cherrier, Pascal *see* **Ben Abdesselem, Adnène, 2001g:32056**

Hitchin, Nigel (*with* Sawon, Justin) Curvature and characteristic numbers of hyper-Kähler manifolds. (English summary) **2001m:53077**
Holla, Yogish I. *see* **Biswas, Indranil et al., 2001b:32036**
Lange, Herbert *see* **Birkenhake, Christina, 2001k:14085**
Matsushita, Daisuke Equidimensionality of Lagrangian fibrations on holomorphic symplectic manifolds. (English summary) **2001f:32041**
Micallef, M. J. *see* **Arezzo, Claudio, 2001m:53087**
Okonek, Christian (*with* Teleman, Andrei) Recent developments in Seiberg-Witten theory and complex geometry. (English summary) **2001g:57063**
Sawon, Justin *see* **Hitchin, Nigel, 2001m:53077**
Schumacher, Georg *see* **Biswas, Indranil et al., 2001b:32036** *and* **2001c:32010**
Teleman, Andrei *see* **Okonek, Christian, 2001g:57063**
Toledo, Domingo Rigidity theorems in Kähler geometry and fundamental groups of varieties. (English summary) **2001g:53080**
Wang, Mu-Tao On representations of complex hyperbolic lattices. (English summary) **2001a:32036**
Zhou, Jian Hodge theory and A_∞-structures on cohomology. **2001e:32028**
— *see also* **Cao, Huai-Dong, 2001f:53181**

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Progress in Mathematics *see* **Birkenhake, Christina, 2001k:14085**

32J81 Applications to physics

Items with secondary classifications in 32J81

Aganagic, Mina (*with* Karch, Andreas) Calabi-Yau mirror symmetry as a gauge theory duality. (English summary) **2001k:81285**
Andreas, Björn $N = 1$ heterotic/F-theory duality. (English summary) **2001m:81204**
Aspinwall, Paul S. $K3$ surfaces and string duality. (English summary) **2001j:81155**
— (*with* Katz, Sheldon H.; Morrison, David R.) Lie groups, Calabi-Yau threefolds, and F-theory. (English summary) **2001k:81203**
Batyrev, Victor V. Stringy Hodge numbers and Virasoro algebra. (English summary) **2001i:32030**
Berglund, Per (*with* Mayr, Peter) Heterotic string/F-theory duality from mirror symmetry. (English summary) **2001a:81176**
Billó, Marco (*with* Denef, Frederik; Fré, Pietro; Pesando, Igor; Troost, Walter; Van Proeyen, Antoine; Zanon, Daniela) Special geometry of Calabi-Yau compactifications near a rigid limit. (English summary) **2001a:53072**
Böhm, Robert (*with* Günther, Holger; Herrmann, Carl; Louis, Jan) Compactification of type IIB string theory on Calabi-Yau threefolds. (English summary) **2001d:81063**
Denef, Frederik *see* **Billó, Marco et al., 2001a:53072**
Diaconescu, Duiliu-Emanuel (*with* Rajesh, Govindan) Geometrical aspects of fivebranes in heterotic/F-theory duality in four dimensions. (English summary) **2001a:81183**
Fré, Pietro *see* **Billó, Marco et al., 2001a:53072**
Gates, S. James, Jr. (*with* Kuzenko, Sergei M.) 4D $N = 2$ supersymmetric off-shell sigma models on the cotangent bundles of Kähler manifolds. (English summary) (*see* **2001h:81005**)
Gopakumar, Rajesh (*with* Vafa, Cumrun) On the gauge theory/geometry correspondence. (English summary) **2001k:81272**
Günther, Holger *see* **Böhm, Robert et al., 2001d:81063**
Harvey, Jeffrey A. (*with* Moore, Gregory W.) On the algebras of BPS states. (English summary) **2001a:81229**
Herrmann, Carl *see* **Böhm, Robert et al., 2001d:81063**
Hofman, Christiaan (*with* Park, Jae-Suk) Sigma models for bundles on Calabi-Yau: a proposal for Matrix string compactifications. (English summary) **2001m:81229**
Karch, Andreas *see* **Aganagic, Mina, 2001k:81285**
Katz, Sheldon H. *see* **Aspinwall, Paul S. et al., 2001k:81203**
Kuzenko, Sergei M. *see* **Gates, S. James, Jr., (2001h:81005)**
Lerche, Wolfgang (*with* Stieberger, S.) Prepotential, mirror map and F-theory on $K3$. (English summary) **2001i:81227a**
— (*with* Stieberger, S.) Erratum: of section (2.2) of "Prepotential, mirror map and F-theory on $K3$". **2001i:81227b**
Louis, Jan *see* **de Wit, Bernard, 2001b:81125** *and* **Böhm, Robert et al., 2001d:81063**
Mayr, Peter *see* **Berglund, Per, 2001a:81176**
Moore, Gregory W. *see* **Harvey, Jeffrey A., 2001a:81229**
Morrison, David R. *see* **Aspinwall, Paul S. et al., 2001k:81203**
Park, Jae-Suk *see* **Hofman, Christiaan, 2001m:81229**
Pesando, Igor *see* **Billó, Marco et al., 2001a:53072**
Rajesh, Govindan *see* **Diaconescu, Duiliu-Emanuel, 2001a:81183**
Stieberger, S. *see* **Lerche, Wolfgang, 2001i:81227a** *and* **2001i:81227b**
Sugiyama, Katsuyuki Kähler potential of moduli space of Calabi-Yau d-fold embedded in $\mathbf{CP}^{d+1}$. (English summary) **2001m:32034**
Thomas, R. P. Examples of bundles on Calabi-Yau 3-folds for string theory compactifications. **2001m:14060**
Troost, Walter *see* **Billó, Marco et al., 2001a:53072**
Vafa, Cumrun *see* **Gopakumar, Rajesh, 2001k:81272**
Van Proeyen, Antoine *see* **Billó, Marco et al., 2001a:53072**
de Wit, Bernard (*with* Louis, Jan) Supersymmetry and dualities in various dimensions. **2001b:81125**
Zanon, Daniela *see* **Billó, Marco et al., 2001a:53072**

32J99 None of the above, but in this section

Items with secondary classifications in 32J99

Pillay, Anand Some model theory of compact complex spaces. (English summary) **2001m:03076**

32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number from Section 32 describing the type of problem)

Items with secondary classifications in 32Kxx

Dineen, Seán ★ Complex analysis on infinite-dimensional spaces. (English summary) **2001a:46043**

32K05 Banach analytic spaces [see also 58Bxx]

Items with secondary classifications in 32K05

Chen, Zeqian (*with* Ouyang, Caiheng) Vector-valued holomorphic functions on the complex ball and the analytic Radon-Nikodym property. (English summary) **2001e:46065**
Nguyen Dinh Lan Structure of space of germs of holomorphic functions and Hartogs type theorem.
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32K15 Differentiable functions on analytic spaces, differentiable spaces [see also 58C25]

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32Lxx Holomorphic fiber spaces [see also 55Rxx]

32L05 Holomorphic bundles and generalizations

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Guest, Martin A. (*with* Kwieciński, Michał; Ong, Boon-Wee) Pseudo vector bundles and quasifibrations. (English summary) **2001h:32031**
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32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 14F05, 18F20, 55N30]

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Golod, P. I. (*with* Skrypnik, T. V.) Geometric quantization, cohomology groups and intertwining operators. (English summary) **2001e:32029**
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— Kähler structures and weighted actions on the complex torus. (English summary) **2001k:53160**
Dingoyan, Pascal Un phénomène de Hartogs dans les variétés projectives. (English summary) [A Hartogs phenomenon for projective varieties] **2001b:32016**
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Soulé, Christophe *see* **Gillet, Henri, 2001m:58070**
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Wu, Siye Equivariant holomorphic Morse inequalities. II. Torus and non-abelian group actions. (English summary) **2001g:58034**
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32L15 Bundle convexity [see also 32F10]

Yeung, Sai-Kee Very ampleness of line bundles and canonical embedding of coverings of manifolds. (English summary) **2001m:32043**

32L20 Vanishing theorems

Fukushima, Yukio *see* **Kajiwara, Joji et al., 2001m:32044**
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Items with secondary classifications in 32L20

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Sibony, Nessim *see* **Ohsawa, Takeo, 2001d:32055**

32L25 Twistor theory, double fibrations [see also 53C28]

Aomoto, Kazuhiko (*with* Machida, Yoshinori) Twistor integral representations of fundamental solutions of massless field equations. (English summary) **2001e:32031**
Bureš, Jarolím (*with* Souček, Vladimír; Ofman, Salomon) Integral transforms for divisors in $P_n(\mathbf{C})$ and solutions of systems of PDE's. **2001m:32045**
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— *see also* **Aomoto, Kazuhiko, 2001e:32031**
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Tsai, Cheng-Chih A non-holomorphic Penrose transform for hyperbolic 3-space. (English summary) **2001d:32030**
— A holomorphic Penrose transform for odd-dimensional Euclidean space. (English summary) **2001k:32038**
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D'Agnolo, Andrea Sheaves and $\mathscr{D}$-modules in integral geometry. (English summary) **2001i:32013**
Guha, Partha The τ functions of the AKS hierarchy and twistor correspondence. (English summary) **2001c:37072**
Huckleberry, Alan T. (*with* Wolf, Joseph A.) Flag duality. (English summary) **2001k:14093**
Karpio, Andrzej Hilbert spaces for massless particles with nonvanishing helicities. (English and French summaries) **2001f:81071**
Kreussler, Bernd Twistor spaces with a pencil of fundamental divisors. (English summary) **2001d:32026**
— Another description of certain quartic double solids. (English summary) **2001h:14007**
Ławrynowicz, Julian (*with* Suzuki, Osamu) An approach to the 5-, 9-, and 13-dimensional complex dynamics. I. Dynamical aspects. (English and Polish summaries) **2001d:81027**
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— (*with* Suzuki, Osamu) An introduction to pseudotwistors: spinor solutions vs. harmonic forms and cohomology groups. (English summary) **2001h:81111**
Marastoni, Corrado Integral transforms for $\mathscr{D}$-modules and homogeneous manifolds. **2001g:32025**
Matuschke, Andreas On framed instanton bundles and their deformations. (English summary) **2001f:14025**
Nannicini, Antonella *see* **de Bartolomeis, Paolo, 2001j:53056**
Penrose, Roger On Ricci-flat twistor theory. **2001k:53092**
— The central programme of twistor theory. **2001b:81053**

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Suzuki, Osamu *see* **Lawrynowicz, Julian, 2001d:81027; 2001d:81028** *and* **2001h:81111**
Wolf, Joseph A. *see* **Huckleberry, Alan T., 2001k:14093**

32L81 Applications to physics

Berceanu, Ştefan Coherent states, line bundles and divisors. (English summary) **2001b:32037**

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Popov, A. D. Holomorphic analogs of topological gauge theories. (English summary) **2001b:81131**
— *see also* **Ivanova, T. A., 2001e:81122**
Schork, Matthias Generalized *bc*-systems based on Hermitian vector bundles. (English summary) **2001d:32028**
Small, A. J. Singularity criteria for (complexified) BPS monopoles. **2001e:53028**

32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups acting on complex spaces [see also 22E10]

Casadio Tarabusi, Enrico (*with* Iannuzzi, Andrea; Trapani, Stefano) Globalizations, fiber bundles, and envelopes of holomorphy. (English summary) **2001f:32035**
Dinh Huy Hoang *see* **Do Duc Thai, 2001b:32038**
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Hamada, Hidetaka (*with* Honda, Tatsuhiro) A characterization of linear automorphisms of the Euclidean ball. (English summary) **2001a:32030**
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Isaev, Alexander V. (*with* Krantz, Steven G.) Characterization of Reinhardt domains by their automorphism groups. (English summary) **2001i:32032**
Kosbergenov, S. On automorphisms of a matrix ball. (Russian) **2001e:32014**
Krantz, Steven G. *see* **Isaev, Alexander V., 2001i:32032**
Lescure, F. Annulation d'une deuxième différentielle. [Vanishing of a second differential] **2001m:32047**
Ovando, Gabriela Invariant complex structures on solvable real Lie groups. (English summary) **2001j:32019**
Trapani, Stefano *see* **Casadio Tarabusi, Enrico et al., 2001f:32035**
Umeno, Takashi Complex line bundles on toroidal groups. (English summary) **2001h:32033**

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Forstnerič, Franc Interpolation by holomorphic automorphisms and embeddings in $\mathbf{C}^n$. (English summary) **2001g:32040**
Kamishima, Yoshinobu Classification of homogeneous complex affinely flat surfaces with compact quotients and applications to complex projective structures. (English summary) **2001j:57048**
Tong, Wu A note for holomorphic automorphism groups on a class of bounded pseudo-convex domains. (Chinese. English and Chinese summaries) **2001i:32050**
Xu, Yichao Automorphism group of exceptional symmetric domains R_V. (English summary) **2001d:32031**
Yin, Wei Ping The Bergman kernels for the third type super-Cartan domains. (Chinese. English and Chinese summaries) **2001k:32006**

32M10 Homogeneous complex manifolds [see also 14M17, 57T15]

Faraut, Jacques (*with* Kaneyuki, Soji; Korányi, Adam; Lu, Qi-keng; Roos, Guy) ★ Analysis and geometry on complex homogeneous domains. (English summary) **2001f:32036**
Kaneyuki, Soji *see* **Faraut, Jacques et al., 2001f:32036**
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Ben Saïd, Salem Espaces de Bergman pondérés et série discrète holomorphe de $\widetilde{U(p,q)}$. (French summary) [Weighted Bergman spaces and holomorphic discrete series of $\widetilde{U(p,q)}$] **2001g:43011**
Cortés Suárez, Vicente *see* **Alekseevskiĭ, D. V., 2001h:53063**
Gigante, Giuliana Hyperbolicity outside a compact set and homogeneous spaces. (English summary) **2001g:32060**
Oeljeklaus, Karl (*with* Sacré, Christine) Variétés Cauchy-Riemann homogènes et enveloppes holomorphes. [Homogeneous Cauchy-Riemann manifolds and envelopes of holomorphy] **2001g:32084**
Ovando, Gabriela Invariant complex structures on solvable real Lie groups. (English summary) **2001j:32019**
Postnikov, A. E. (*with* Shapiro, Boris Z.; Shapiro, Mikhail) Algebras of curvature forms on homogeneous manifolds. (English summary) **2001a:53079**
Sacré, Christine *see* **Oeljeklaus, Karl, 2001g:32084**
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32M12 Almost homogeneous manifolds and spaces [see also 14M17]

Hausen, Jürgen Algebraicity criteria for almost homogeneous complex spaces. (English summary) **2001b:32039**
Huckleberry, Alan T. (*with* Kebekus, Stefan; Peternell, Thomas) Group actions on S^6 and complex structures on $\mathbf{P}^3$. **2001h:32034**
Kebekus, Stefan *see* **Huckleberry, Alan T. et al., 2001h:32034**
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Guan, Zhuang Dan Toward a classification of almost homogeneous manifolds. II. Bad models. (English summary) **2001b:14028**
— Toward a classification of almost homogeneous manifolds. III. $SL(2) \times \mathbf{C}^*$ actions. (English summary) **2001k:14042**

32M15 Hermitian symmetric spaces, bounded symmetric domains, Jordan algebras [see also 22E10, 22E40, 53C35, 57T15]

Arazy, Jonathan (*with* Ørsted, Bent) Asymptotic expansions of Berezin transforms. (English summary) **2001i:32033**
Gibbons, Gary W. Holography and the future tube. (English summary) **2001e:32032**
Kaup, Wilhelm (*with* Sauter, Joachim) Boundary structure of bounded symmetric domains. (English summary) **2001b:32040**
Lim, Yongdo Finsler metrics on symmetric cones. (English summary) **2001b:32041**
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Mackey, Michael T. The Grassmannian manifold associated to a bounded symmetric domain. **2001h:32035**
Mellon, P. Holomorphic invariance on bounded symmetric domains. (English summary) **2001f:32038**
Neeb, Karl-Hermann ★ Holomorphy and convexity in Lie theory. **2001j:32020**
Nomura, Takaaki Berezin transforms and Laplace-Beltrami operators on homogeneous Siegel domains—commutativity, symmetry of the domain and a Cayley transform. (*see* **2001f:58004**)
Oeljeklaus, Eberhard (*with* Schmerling, C.) Hyperbolicity properties of quotient surfaces by freely operating arithmetic lattices. (English and French summaries) **2001j:32021**
Okamoto, Kiyosato (*with* Tsukamoto, Michiroh; Yokota, Katsuki) Generalized Poisson and Cauchy kernel functions on classical domains. **2001j:32022**
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Pereyrol, Richard Volume simplicial des espaces hermitiens symétriques. [Simplicial volume of Hermitian symmetric spaces] **2001g:32055**
Sauter, Joachim *see* **Kaup, Wilhelm, 2001b:32040**
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Zhang, Genkai Berezin transform on line bundles over bounded symmetric domains. (English summary) **2001c:32015**

Items with secondary classifications in 32M15

Békollé, David Bergman spaces with small exponents. (English summary) **2001m:32010**
Biquard, Olivier Einstein deformations of hyperbolic metrics. **2001k:53080**
Damek, Ewa (*with* Hulanicki, Andrzej) Invariant operators and pluriharmonic functions on symmetric irreducible Siegel domains. (English summary) **2001j:32035**
Ding, Hongming (*with* Gross, Kenneth I.; Kunze, Ray A.; Richards, Donald St. P.) Bessel functions on boundary orbits and singular holomorphic representations. (English summary) **2001k:22017**
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Hwang, Jun-Muk (*with* To, Wing-Keung) On Seshadri constants of canonical bundles of compact quotients of bounded symmetric domains. (English summary) **2001f:32039**
Ishi, Hideyuki Representations of the solvable group acting on a homogeneous Siegel domain. **2001b:22010**
Kaup, Wilhelm On a Schwarz lemma for bounded symmetric domains. **2001b:46072**
Koecher, Max ★ The Minnesota notes on Jordan algebras and their applications. **2001e:17040**

Kosbergenov, S. On automorphisms of a matrix ball. (Russian) **2001c:32014**
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Lawson, Jimmie D. (*with* Lim, Yongdo) Compactification structure and conformal compressions of symmetric cones. (English summary) **2001d:17033**
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32M17 Automorphism groups of $\mathbf{C}^n$ and affine manifolds

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32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N10 Automorphic forms

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32N15 Automorphic functions in symmetric domains

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32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)

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32Qxx Complex manifolds

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32Q05 Negative curvature manifolds

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Goldman, William M. (*with* Kapovich, Michael; Leeb, Bernhard) Complex hyperbolic manifolds homotopy equivalent to a Riemann surface. (English summary) **2001m:32049**
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Kim, Kang-Tae The Wu metric and minimum ellipsoids. (English summary) **2001f:32017**
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Ueno, Keisuke Complex-analyticity of harmonic maps. **2001f:58036**
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Guan, Zhuang Dan On modified Mabuchi functional and Mabuchi moduli space of Kähler metrics on toric bundles. **2001b:32042**
Harris, Bruno (*with* Wang, Bin[7]) Height pairings asymptotics and Bott-Chern forms. **2001f:32040**
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Di Scala, Antonio J. Reducibility of complex submanifolds of the complex Euclidean space. (English summary) **2001i:53093**
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Hamilton, Richard S. *see* **Cao, Huai-Dong, 2001g:53117**
Hatzinikitas, Agapitos The gravitational chiral anomaly of the spin-1/2 field in the presence of twisted boundary conditions for ordinary field theory. (English summary) **2001j:81213**
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— Deformation quantization of compact Kähler manifolds by Berezin-Toeplitz quantization. (English summary) **2001k:53177**
— *see also* **Berceanu, Ştefan, 2001f:53185**
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Tian, Gang Kähler-Einstein manifolds of positive scalar curvature. **2001m:32052**
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Bradlow, Steven B. (*with* Glazebrook, James F.; Kamber, Franz W.) Reduction of the Hermitian-Einstein equation on Kählerian fiber bundles. (English summary) **2001i:32038**
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Li, Jia Yu[1] Hermitian-Einstein metrics and Chern number inequalities on parabolic stable bundles over Kähler manifolds. (English summary) **2001k:32043**
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Mazzeo, Rafe Kähler-Einstein metrics singular along a smooth divisor. (English summary) **2001b:32044**
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Nadel, Alan M. Multiplier ideal sheaves and Futaki's invariant. **2001a:32033**
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— (*with* Zhu, Xiaohua) Uniqueness of Kähler-Ricci solitons on compact Kähler manifolds. (English and French summaries) **2001b:32045**
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— (*with* Zhu, Xiaohua) A nonlinear inequality of Moser-Trudinger type. (English summary) **2001f:32044**
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Buchdahl, Nicholas P. Sequences of stable bundles over compact complex surfaces. (English summary) **2001m:32039**
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Lu, Peng[1] Kähler-Einstein metrics on Kummer threefold and special Lagrangian tori. (English summary) **2001a:32035**
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Ray, Koushik Candidates for anti-de Sitter-horizons. (English summary) **2001b:81122**
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32Q25 Calabi-Yau theory

de Bartolomeis, Paolo Complex Casson invariants. (English summary) **2001b:32047**
Lu, Peng[1] Kähler-Einstein metrics on Kummer threefold and special Lagrangian tori. (English summary) **2001a:32035**
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Naka, Michihiro (*with* Nozaki, Masatoshi) Boundary states in Gepner models. (English summary) **2001i:81252**
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32Q28 Stein manifolds

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Kan, Su-Jen (*with* Ma, Daowei) On rigidity of Grauert tubes over locally symmetric spaces. **2001i:32039**
Ma, Daowei *see* **Kan, Su-Jen, 2001i:32039**
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Epstein, Charles L. (*with* Ouyang, Yong) Deformations of open Stein manifolds. (English summary) **2001m:32027**
Forstnerič, Franc (*with* Prezelj, Jasna) Oka's principle for holomorphic fiber bundles with sprays. **2001m:32040**
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32Q30 Uniformization

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Shi, Wan-Xiong A uniformization theorem for complete Kähler manifolds with positive holomorphic bisectional curvature. (English summary) **2001b:53088**
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32Q35 Complex manifolds as subdomains of Euclidean space

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32Q40 Embedding theorems

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32Sxx Singularities [see also 58Kxx]

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32S05 Local singularities [see also 14J17]

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32S10 Invariants of analytic local rings

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32S15 Equisingularity (topological and analytic) [see also 14E15]

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32S20 Global theory of singularities; cohomological properties [see also 14E15]

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32S22 Relations with arrangements of hyperplanes [see also 52C35]

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32S25 Surface and hypersurface singularities [see also 14J17]

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32Txx Pseudoconvex domains

32T05 Domains of holomorphy

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32V15 CR manifolds as boundaries of domains

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32V35 Finite type conditions on CR manifolds

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32V40 Real submanifolds in complex manifolds

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Mir, Nordine Formal biholomorphic maps of real analytic hypersurfaces. (English summary) **2001k:32027**
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32V99 None of the above, but in this section

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32Wxx Differential operators in several variables

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32W05 $\overline{\partial}$ and $\overline{\partial}$-Neumann operators

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Ben Moussa, Benoît Analyticité semi-globale pour le $\overline{\partial}$-Neumann dans des domaines pseudoconvexes. (English summary) [Semiglobal analyticity for the $\overline{\partial}$-Neumann problem in pseudoconvex domains] **2001g:32090**
Chang, Chin-Huei (*with* Lee, Hsuan Pei) L^p estimates for $\overline{\partial}$ in some weakly pseudoconvex domains in $\mathbf{C}^n$. (English summary) **2001j:32040**
Chen, Bo Yong On the parameter dependence of solutions to the $\overline{\partial}$-equation. (English and Chinese summaries) **2001j:32041**
Chen, Lu Ping[2] (*with* Lin, Liang Yu) Solutions with discrete kernels to the $\overline{\partial}$-equation on bounded domains. (Chinese. English and Chinese summaries) **2001i:32057**
Christ, Michael Remarks on global irregularity in the $\overline{\partial}$-Neumann problem. (English summary) **2001a:32044**
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Darko, Patrick W. L^p cohomology for locally polycylindrical domains in $\mathbf{C}^n$. (English and Italian summaries) **2001h:32067**
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Kohn, Joseph J. Hypoellipticity at points of infinite type. (English summary) **2001f:32066**
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Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 2001f:32012**
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Treves, François A treasure trove of geometry and analysis: the hyperquadric. **2001h:32056**

32W10 $\overline{\partial}_b$ and $\overline{\partial}_b$-Neumann operators

Barkatou, Moulay Youssef Optimal regularity for $\overline{\partial}_b$ on CR manifolds. (English summary) **2001d:32054**
Chang, Chin-Huei (*with* Lee, Hsuan Pei) Semi-global solutions of $\overline{\partial}_b$ with L^p $(1 \le p \le \infty)$ bounds on strongly pseudoconvex real hypersurfaces in $\mathbf{C}^n$ $(n \ge 3)$. (English summary) **2001a:32051**
Derridj, Makhlouf Régularité höldérienne pour $\Box_b$, sur des hypersurfaces de $\mathbf{C}^n$, à forme de Levi décomposable en blocs. [Hölder regularity for $\Box_b$, on hypersurfaces in $\mathbf{C}^n$, with block-decomposable Levi form] **2001e:32055**
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Ohsawa, Takeo (*with* Sibony, Nessim) Kähler identity on Levi flat manifolds and application to the embedding. (English summary) **2001d:32055**
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Cegrell, Urban (*with* Kołodziej, Sławomir) The global Dirichlet problem for the complex Monge-Ampère equation. (English summary) **2001h:32068**
Fairlie, D. B. (*with* Leznov, A. N.) The general solution of the homogeneous complex Monge-Ampère equation in a space of arbitrary dimension. (English summary) **2001i:32061**
Kołodziej, Sławomir Weak solutions of equations of complex Monge-Ampère type. (English summary) **2001h:32069**
— *see also* **Cegrell, Urban, 2001h:32068**
Krantz, Steven G. (*with* Li, Song-Ying) On the existence of smooth plurisubharmonic solutions for certain degenerate Monge-Ampère equations. (English summary) **2001a:32052**
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Xing, Yang Complex Monge-Ampère measures of plurisubharmonic functions with bounded values near the boundary. (English summary) **2001h:32070**

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Ben Messaoud, Hedi (*with* ElMir, Hassine) Opérateur de Monge-Ampère et tranchage des courants positifs fermés. [Monge-Ampère operator and slicing of closed positive currents] **2001j:32037**
Blocki, Zbigniew The $C^{1,1}$ regularity of the pluricomplex Green function. **2001k:32057**
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Carleheď, Magnus Potentials in pluripotential theory. (English and French summaries) **2001a:32041**
Chen, Xiuxiong On the lower bound of the Mabuchi energy and its application. **2001f:32042**
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Hirachi, Kengo Construction of boundary invariants and the logarithmic singularity of the Bergman kernel. **2001f:32003**
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Kiselman, Christer O. Plurisubharmonic functions and potential theory in several complex variables. (English and Esperanto summaries) **2001j:32034**
Li, Song-Ying (*with* Ni, Lei) On the holomorphicity of proper harmonic maps between unit balls with the Bergman metrics. **2001a:32026**
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Nutku, Y. Covariant symplectic structure of the complex Monge-Ampère equation. (English summary) **2001b:53096**
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32W25 Pseudodifferential operators in several complex variables

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Treves, François A treasure trove of geometry and analysis: the hyperquadric. **2001h:32056**

32W30 Heat kernels in several complex variables

Li, Qing Zhong (*with* Zhang, Guang Yuan[1]) The heat kernel construction of symmetric spaces of type III. (Chinese. English and Chinese summaries) **2001b:32077**
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Kaneyuki, Soji *see* **Faraut, Jacques et al., 2001f:32036**
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32W50 Other partial differential equations of complex analysis

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32W99 None of the above, but in this section

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33–XX Special functions {For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11–XX; for representation theory see 22Exx.}

33–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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Virchenko, Nina A. (*with* Lyashko, I. I.) ★ Graphs of elementary and special functions. **2001j:00010**
(Zwillinger, Daniel) *see* **Gradshtein, I. S., 2001c:00002**

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Graphs of elementary and special functions *see* **Virchenko, Nina A., 2001j:00010**
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33–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Hayek, S. I. ★ Advanced mathematical methods in science and engineering. (English summary) **2001j:00006**
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Straume, Eldar Elliptic functions in elementary analysis. (Norwegian. English and Norwegian summaries) **2001d:33025**

33–02 Research exposition (monographs, survey articles)

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33–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 33–03

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Gasper, George (*with* Ismail, Mourad El-Houssieny; Koornwinder, T. H.; Nevai, Paul; Stanton, Dennis W.) The mathematical contributions of Richard Askey. (English summary) **2001e:01029**
Gautschi, Walter The incomplete gamma functions since Tricomi. **2001g:33003**
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33–06 Proceedings, conferences, collections, etc.

(Dunkl, Charles F.) *see* **Special functions, 2001i:33001**
(Ismail, Mourad El-Houssieny) *see* **q-series from a contemporary perspective, 2001a:33001** *and* **Special functions, 2001i:33001**
(Stanton, Dennis W.) *see* **q-series from a contemporary perspective, 2001a:33001**
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Olver, Frank William John ★ Selected papers of F. W. J. Olver. Part I, II. **2001g:01051**
(Priezzhev, V. B.) *see* **Self-similar systems, 2001j:00031**
(Spiridonov, Vyacheslav) *see* **Self-similar systems, 2001j:00031**
(Wong, Roderick) *see* **Olver, Frank William John, 2001g:01051**

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33Bxx Elementary classical functions

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33B10 Exponential and trigonometric functions

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Boersma, Johannes *see* **Glasser, M. L., 2001c:33001a** *and* **2001c:33001b**
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Carlson, Bille Chandler (*with* FitzSimons, James) Reduction theorems for elliptic integrands with the square root of two quadratic factors. (English summary) **2001d:33013**
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Li, Xian-Jin (*with* Vaaler, Jeffrey D.) Some trigonometric extremal functions and the Erdős-Turán type inequalities. (English summary) **2001a:11136**
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33B15 Gamma, beta and polygamma functions

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33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)

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33B99 None of the above, but in this section

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33Cxx Hypergeometric functions

33C05 Classical hypergeometric functions, ${}_2F_1$

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Askey, Richard A. A class of non-orthogonal polynomials discovered by F. G. Tricomi. **2001g:33016**
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33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$

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Gupta, Dharma P. (*with* Muldoon, Martin E.) Riccati equations and convolution formulae for functions of Rayleigh type. (English summary) **2001c:33008**
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Volkmer, Hans Eigenvalue problems for Bessel's equation and zero-pairs of Bessel functions. (English summary) **2001g:33012**
Wong, Roderick (*with* Zhao, Yuqiu) Smoothing of Stokes's discontinuity for the generalized Bessel function. II. (English summary) **2001k:33007**
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33C65 Appell, Horn and Lauricella functions

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33C67 Hypergeometric functions associated with root systems

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33Dxx Basic hypergeometric functions

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33D52 Basic orthogonal polynomials and functions associated with root systems (Macdonald polynomials, etc.)

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Aomoto, Kazuhiko Connection matrices and Riemann-Hilbert problem for q-difference equations. (English summary) **2001g:33035**
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33D67 Basic hypergeometric functions associated with root systems

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33D80 Connections with quantum groups, Chevalley groups, p-adic groups, Hecke algebras, and related topics

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Chalykh, Oleg A. Bispectrality for the quantum Ruijsenaars model and its integrable deformation. (English summary) **2001i:81106**
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33D90 Applications

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Ali, Ismail (*with* Vũ Kim Tuân) Application of basic hypergeometric series to stable analytic continuation. (English summary) **2001f:30005**
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33D99 None of the above, but in this section

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33Exx Other special functions

33E05 Elliptic functions and integrals

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33E10 Lamé, Mathieu, and spheroidal wave functions

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Tabanov, M. B. Normal forms of equations of wave functions in new natural ellipsoidal coordinates. (English summary) **2001b:35051**

33E12 Mittag-Leffler functions and generalizations

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33E15 Other wave functions

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33E17 Painlevé-type functions

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Dubrovin, Boris Painlevé transcendents in two-dimensional topological field theory. (English summary) **2001h:53131**
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Kapaev, A. A. *see* **It·s, A. R., 2001j:34116**
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— *see also* **Quero, Sandra, 2001f:33029**
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Quero, Sandra (*with* Galué, Leda) A generalization of modified Bourget functions. (Spanish. English and Spanish summaries) **2001f:33029**
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Rivero, Margarita *see* **Bonilla, B. et al., 2001b:33029**
Rodríguez-Mesa, Lourdes *see* **Bonilla, B. et al., 2001b:33029**
Ruskai, Mary Beth (*with* Werner, Elisabeth) Study of a class of regularizations of $1/|X|$ using Gaussian integrals. (English summary) **2001k:33042**
Saxena, Ram Kishore (*with* Kalla, Shyam L.) A new method for evaluating Epstein-Hubbell generalized elliptic-type integrals. (English summary) **2001g:33039**
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Srivastava, H. S. P. Certain class of Eulerian integrals of multivariable generalized hypergeometric function. (English summary) **2001g:33040**
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Adiga, Chandrashekar (*with* Vasuki, K. R.) Some explicit evaluations of theta-functions. (English summary) **2001g:33027**
Boersma, Johannes *see* **Glasser, M. L., 2001i:82022**
Cai, DongSheng *see* **Miyazaki, Yoshinori et al., 2001j:81271**
Connor, J. N. L. *see* **Kirk, N. P. et al., 2001h:78004**
Curtis, P. R. *see* **Kirk, N. P. et al., 2001h:78004**
Czerwonko, Jerzy *see* **Gonczarek, Ryszard, 2001h:26015**
Dehesa, Jesús S. *see* **Sánchez-Ruiz, Jorge, 2001c:33021**
Demianko, Svetlana V. *see* **Kilbas, A. A., 2001j:45008**
Dilcher, Karl Hypergeometric functions and Fibonacci numbers. **2001m:33002**
Garg, Mridula (*with* Purohit, Mridula) Eulerian integral formulas and associated fractional integration. (English summary) **2001m:33019**
Glasser, M. L. (*with* Boersma, Johannes) Exact values for the cubic lattice Green functions. (English summary) **2001i:82022**
Gonczarek, Ryszard (*with* Czerwonko, Jerzy) On a class of integrals appearing in subcritical thermodynamics of superconductors. (English summary) **2001h:26015**
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Kirk, N. P. (*with* Connor, J. N. L.; Curtis, P. R.; Hobbs, Catherine) Theory of axially symmetric cusped focusing: numerical evaluation of a Bessoid integral by an adaptive contour algorithm. (English summary) **2001h:78004**
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Luchko, Yurii F. *see* **Gorenflo, Rudolf et al., 2001c:33011** *and* **2001e:45007**
Mainardi, Francesco (*with* Gorenflo, Rudolf) On Mittag-Leffler-type functions in fractional evolution processes. (English summary) **2001g:45014**
— *see also* **Gorenflo, Rudolf et al., 2001c:33011** *and* **2001e:45007**

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Orbay, M. *see* **Guseinov, I. I. et al., 2001j:81269**
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Purohit, Mridula *see* **Garg, Mridula, 2001m:33019**
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Saigo, Megumi (*with* Saxena, Ram Kishore) Unified fractional integral formulas for the multivariable H-function. II. (English summary) **2001c:33023**
Sánchez-Ruiz, Jorge (*with* Dehesa, Jesús S.) Entropic integrals of orthogonal hypergeometric polynomials with general supports. (English summary) **2001c:33021**
Saxena, Ram Kishore *see* **Saigo, Megumi, 2001c:33023**
Srivastava, Hari M. (*with* Tsumura, Hirofumi) A certain class of rapidly convergent series representations for $\zeta(2n+1)$. (English summary) **2001f:11145**
Tsumura, Hirofumi *see* **Srivastava, Hari M., 2001f:11145**
Vasuki, K. R. *see* **Adiga, Chandrashekar, 2001g:33027**
Vyas, Vishwa Mohan (*with* Rathie, Arjun K.) Some results involving $\overline{I}$-function and Gegenbauer polynomials. (Hindi. English and Hindi summaries) **2001f:33017**

33E30 Other functions coming from differential, difference and integral equations

Barker, Laurence (*with* Candan, Çağatay; Hakioğlu, Tuğrul; Kutay, M. Alper; Ozaktas, Haldun M.) The discrete harmonic oscillator, Harper's equation, and the discrete fractional Fourier transform. (English summary) **2001i:33026**
Candan, Çağatay *see* **Barker, Laurence et al., 2001i:33026**
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Banwell, Thomas C. Bipolar transistor circuit analysis using the Lambert W-function. (English summary) **2001m:94070**
Exton, Harold New solutions of Heun's equation. (English summary) **2001j:34002**
Kwaśniewski, Andrzej K. *see* **Bajguz, Wiesław, 2001m:33039**
Zabrodin, A. V. Commuting difference operators with elliptic coefficients from Baxter's vacuum vectors. (English summary) **2001i:82032**

33E50 Special functions in characteristic p (gamma functions, etc.)

Items with secondary classifications in 33E50

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Vladimirov, V. S. Adelic formulas for gamma- and beta-functions of class number one quadratic fields: applications to 4-particle string scattering amplitudes. (Russian. Russian summary) **2001i:11132**

33E99 None of the above, but in this section

Items with secondary classifications in 33E99

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Park, Keun Saeng (*with* Choi, Junesang) The double gamma function with applications. (English summary) **2001e:11092**
Remmers, Jürgen Special functions of a quaternion variable. (English summary) **2001k:30067**

33Fxx Computational aspects

33F05 Numerical approximation [see also 65D20]

Adamchik, V. S. A class of logarithmic integrals. (English summary) **2001k:33043**
Ball, James S. Automatic computation of zeros of Bessel functions and other special functions. (English summary) **2001i:33027**
Barrio, Roberto Parallel algorithms to evaluate orthogonal polynomial series. (English summary) **2001f:33030**
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— *see also* **Segura, Javier, 2001h:33033**
Koepf, Wolfram Numeric versus symbolic computation. (English summary) (*see* **2001a:00034**)
Miller, Allen R. Lattice sums of generalized hypergeometric functions. (English summary) **2001c:33039**
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Morita, Tohru Numerical calculation of the elliptic integrals of the first and second kinds with complex modulus. (English summary) **2001h:33032**
Segura, Javier (*with* Gil, Amparo) Evaluation of associated Legendre functions off the cut and parabolic cylinder functions. (English summary) **2001h:33033**
— *see also* **Gil, Amparo et al., 2001h:33031**
Stanković, Miomir S. (*with* Vidanović, Mirjana V.; Tričković, Slobodan B.) On the summation of series involving Bessel or Struve functions. (English summary) **2001h:33034**
Temme, Nico M. *see* **Gil, Amparo et al., 2001h:33031**
Tričković, Slobodan B. *see* **Stanković, Miomir S. et al., 2001h:33034**
Vidanović, Mirjana V. *see* **Stanković, Miomir S. et al., 2001h:33034**

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Abbas, Salman H. Numerical solution on the Jacobi polynomials and computation of special functions. (English summary)
Barry, D. A. (*with* Parlange, J.-Y.; Li, Lei[1]; Prommer, H.; Cunningham, C. J.; Stagnitti, F.) Analytical approximations for real values of the Lambert W-function. (English summary) **2001d:65029**
Borwein, Jonathan M. (*with* Bradley, David M.; Crandall, Richard E.) Computational strategies for the Riemann zeta function. (English summary) **2001h:11110**
Boudjelkha, M. T. (*with* Chaudhry, Muhammad Aslam) On the approximation of a generalized incomplete gamma function arising in heat conduction problems. (English summary) **2001h:33001**
Boyd, John Philip Additive blending of local approximations into a globally-valid approximation with application to the dilogarithm. (English summary)
Bradley, David M. *see* **Borwein, Jonathan M. et al., 2001h:11110**
Bürgisser, Peter The computational complexity to evaluate representations of general linear groups. (English summary) **2001m:68185**
Carlson, Bille Chandler Toward symbolic integration of elliptic integrals. (English summary) **2001f:33025**
— (*with* FitzSimons, James) Reduction theorems for elliptic integrands with the square root of two quadratic factors. (English summary) **2001d:33013**
Chaudhry, Muhammad Aslam *see* **Boudjelkha, M. T., 2001h:33001**
Connor, J. N. L. *see* **Kirk, N. P. et al., 2001h:78004**
Crandall, Richard E. *see* **Borwein, Jonathan M. et al., 2001h:11110**
Cunningham, C. J. *see* **Barry, D. A. et al., 2001d:65029**
Curtis, P. R. *see* **Kirk, N. P. et al., 2001h:78004**
Dimitrov, Dimitar K. (*with* Merlo, Clinton A.) Two new conjectures concerning positive Jacobi polynomials sums. (English summary) **2001h:33008**
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Gatteschi, Luigi New results on some two-dimensional iterative algorithms. **2001e:65034**
Gautschi, Walter The incomplete gamma functions since Tricomi. **2001g:33003**
Glasser, M. L. An integral of a complete elliptic integral. (English and Arabic summaries) **2001c:33037**
Gosper, R. Wm., Jr. (*with* Suslov, Sergei K.) Numerical investigation of basic Fourier series. (English summary) **2001g:33034**
Hardy, Yorick (*with* Steeb, Willi-Hans; Stoop, R.) Jacobi elliptic functions, nonlinear evolution equations and recursion. (English summary) **2001b:33028**
Harris, Frank E. Spherical Bessel expansions of sine, cosine, and exponential integrals. (English summary) **2001a:65027**
Hobbs, Catherine *see* **Kirk, N. P. et al., 2001h:78004**
Hoggan, P. E. *see* **Safouhi, Hassan, 2001f:92023**
Ivankov, P. L. On the linear independence of the values of some functions. (Russian. English and Russian summaries) **2001k:33009**
Kerimov, M. K. The Rayleigh function: theory and computational methods. (Russian. Russian summary) **2001c:33038**
Kirk, N. P. (*with* Connor, J. N. L.; Curtis, P. R.; Hobbs, Catherine) Theory of axially symmetric cusped focusing: numerical evaluation of a Bessoid integral by an adaptive contour algorithm. (English summary) **2001h:78004**
Kooi, P. S. *see* **Li, Le-Wei et al., 2001b:78008**
Kozhukhov, I. B. (*with* Platonov, N. I.) Polynomial approximation of zeros of Bessel functions. (Russian. English and Russian summaries) **2001m:33006**
Kravanja, Peter (*with* Verlinden, Pierre) On the zeros of $J_\nu(z) \pm iJ_{\nu+1}(z)$ and $[J_{\nu+1}(z)]^2 - J_\nu(z)J_{\nu+2}(z)$. (English summary)
Landau, L. J. Ratios of Bessel functions and roots of $\alpha J_\nu(x) + xJ_\nu'(x) = 0$. (English summary) **2001d:33004**
Lasyĭ, P. G. *see* **Meleshko, I. N., 2001g:41030**
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Meleshko, I. N. (*with* Lasyĭ, P. G.) On the approximation of functions by polylogarithms. (Russian. English and Russian summaries) **2001g:41030**
Merlo, Clinton A. *see* **Dimitrov, Dimitar K., 2001h:33008**
Müller, Jürgen[3] Series expansions for computing Bessel functions of variable order on bounded intervals. (English summary) **2001e:65035**
Nikiforov, Arnold (*with* Shachkov, Mikhail) Methods for computing the Hahn polynomials. (*see* **2001j:00031**)
Parlange, J.-Y. *see* **Barry, D. A. et al., 2001d:65029**
Pasquini, L. Accurate computation of the zeros of the generalized Bessel polynomials. (English summary) **2001i:65030**
Platonov, N. I. *see* **Kozhukhov, I. B., 2001m:33006**
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Raffee, Vadia Mohammad Bessel function by parallel integration of ODEs under parallel virtual machine environment. (English summary) (*see* **2001b:00021**)
Safouhi, Hassan (*with* Hoggan, P. E.) Three-centre two-electron Coulomb and hybrid integrals evaluated using nonlinear D- and $\overline{D}$-transformations. (English summary) **2001f:92023**
— The HD and H$\overline{\text{D}}$ methods for accelerating the convergence of three-center nuclear attraction and four-center two-electron Coulomb integrals over B functions and their convergence properties. (English summary) **2001i:65007**
Shachkov, Mikhail *see* **Nikiforov, Arnold, (2001j:00031)**

Simouzhenkov, S. D. On the computation of elliptic integrals of the third kind. (Russian. English summary) (*see* **2001a:00018**)
Spotz, William F. *see* **Swarztrauber, Paul N., 2001i:33011**
Srivastava, Hari M. (*with* Tsumura, Hirofumi) A certain class of rapidly convergent series representations for $\zeta(2n+1)$. (English summary) **2001f:11145**
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Steeb, Willi-Hans *see* **Hardy, Yorick et al., 2001b:33028**
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Suslov, Sergei K. *see* **Gosper, R. Wm., Jr., 2001g:33034**
Swarztrauber, Paul N. (*with* Spotz, William F.) Generalized discrete spherical harmonic transforms. (English summary) **2001i:33011**
Tsumura, Hirofumi *see* **Srivastava, Hari M., 2001f:11145**
Verlinden, Pierre Stable rational modification of a weight. (English summary) **2001h:65163**
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Wachspress, E. L. Evaluating elliptic functions and their inverses. (English summary) **2001h:65031**
Wilf, Herbert S. Accelerated series for universal constants, by the WZ method. (English summary) **2001m:33004**
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33F10 Symbolic computation (Gosper and Zeilberger algorithms, etc.) [see also 68W30]

Area, I. (*with* Godoy, E.; Ronveaux, André; Zarzo, A.) Inversion problems in the q-Hahn tableau. (English summary) **2001f:33031**
— *see also* **Ronveaux, André et al., 2001e:33011**
Böing, Harald (*with* Koepf, Wolfram) Algorithms for q-hypergeometric summation in computer algebra. (English summary) **2001j:33019**
Caruso, Fabrizio A Macsyma implementation of Zeilberger's fast algorithm. (English summary)
Chyzak, Frédéric An extension of Zeilberger's fast algorithm to general holonomic functions. (English and French summaries) **2001m:33041**
Gauthier, Bruno HYPERG: a Maple package for manipulating hypergeometric series. (English summary) **2001g:33041**
Gerhard, Jürgen High degree solutions of low degree equations (extended abstract). (English summary) (*see* **2001m:68004**)
Godoy, E. *see* **Ronveaux, André et al., 2001e:33011** *and* **Area, I. et al., 2001f:33031**
Koepf, Wolfram Orthogonal polynomials and computer algebra. (English summary) (*see* **2001a:00034**)
— Software for the algorithmic work with orthogonal polynomials and special functions. (English summary) **2001b:33030**
— *see also* **Böing, Harald, 2001j:33019**
Niukkanen, A. W. New algorithms in the theory of hypergeometric series, and Burchnall-Chaundy expansions. (Russian. Russian summary) **2001h:33035**
Raab, Winfried *see* **Reinsch, Klaus-Dieter, 2001k:33044**
Reinsch, Klaus-Dieter (*with* Raab, Winfried) Elliptic integrals of the first and second kind—comparison of Bulirsch's and Carlson's algorithms for numerical calculation. (English summary) **2001k:33044**
Ronveaux, André (*with* Zarzo, A.; Area, I.; Godoy, E.) Decomposition of polynomials with respect to the cyclic group of order m. (English summary) **2001e:33011**
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Schneider, Carsten An implementation of Karr's summation algorithm in Mathematica. (English summary) **2001j:33020**
Tefera, Akalu A multiple integral evaluation inspired by the multi-WZ method. (English summary) **2001a:33018**
Wimp, Jet Connection coefficients, orthogonal polynomials and the WZ-algorithms. **2001a:33019**
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Abramov, Sergei A. (*with* Le, H. Q.) Applicability of Zeilberger's algorithm to rational functions. (English and French summaries) **2001j:05014**
— m-sparse solutions of linear ordinary differential equations with polynomial coefficients. (English and French summaries) **2001b:34008**
Bauer, Andrej (*with* Petkovšek, Marko) Multibasic and mixed hypergeometric Gosper-type algorithms. (English summary) **2001g:33036**
Chyzak, Frédéric Gröbner bases, symbolic summation and symbolic integration. (English summary) **2001a:68115**
Ismail, Mourad El-Houssieny (*with* Masson, David R.; Suslov, Sergei K.) The q-Bessel function on a q-quadratic grid. (English summary) **2001c:33031**
Le, H. Q. *see* **Abramov, Sergei A., 2001j:05014**
Masson, David R. *see* **Ismail, Mourad El-Houssieny et al., 2001c:33031**
Petkovšek, Marko *see* **Bauer, Andrej, 2001g:33036**
Schlosser, Michael Summation theorems for multidimensional basic hypergeometric series by determinant evaluations. (English summary) **2001g:33029**
Sofo, Anthony Closed form representation of binomial sums and series. (English summary) **2001b:05020**
Subbarao, M. V. (*with* Verma, Arun[1]) Some summations of q-series by telescoping. (English summary) **2001d:33017**
Suslov, Sergei K. *see* **Ismail, Mourad El-Houssieny et al., 2001c:33031**
Verma, Arun[1] *see* **Subbarao, M. V., 2001d:33017**

33F99 None of the above, but in this section

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Glaister, P. Generalized elliptic integrals with an application. (English summary) **2001m:33037**
Lozier, Daniel W. The DLMF project: a new initiative in classical special functions. (English summary) (*see* **2001i:33001**)

34–XX Ordinary differential equations

34–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Andres, Ján Recent results on third order nonlinear ODEs. **2001c:34001**

Items with secondary classifications in 34–00

Bishop, Steven R. *see* **Kapitaniak, Tomasz, 2001a:37001**
Kapitaniak, Tomasz (*with* Bishop, Steven R.) ★ The illustrated dictionary of nonlinear dynamics and chaos. (English summary) **2001a:37001**

Items listed otherwise than by author

Dictionary:
Nonlinear dynamics and chaos *see* **Kapitaniak, Tomasz, 2001a:37001**

34–01 Instructional exposition (textbooks, tutorial papers, etc.)

Halanay, Aristide (*with* Samuel, Iudita) ★ Differential equations, discrete systems and control. (English summary) **2001j:34001**
Perko, Lawrence ★ Differential equations and dynamical systems. (English summary) **2001k:34001**
Samuel, Iudita *see* **Halanay, Aristide, 2001j:34001**
(Thompson, Russell C.) *see* **Walter, Wolfgang L., 2001k:34002**
Walter, Wolfgang L. ★ Ordinary differential equations. (English summary) **2001k:34002**

Items with secondary classifications in 34–01

Chan Man Fong, C. F. (*with* De Kee, D.) ★ Perturbation methods, instability, catastrophe and chaos. **2001j:37001**
De Kee, D. *see* **Chan Man Fong, C. F., 2001j:37001**
Dewar, Robert L. *see* **Stewart, David E., 2001f:37001**
Lerda, Francesco My meeting with Tricomi's scientific personality: from differential equations to artificial intelligence. **2001e:34035**
Lo, Chi Y. ★ Boundary value problems. **2001k:35002**
Rahman, Matiur ★ Mathematical methods with applications. (English summary) **2001c:00001**
Sastry, S. Shankar ★ Nonlinear systems. (English summary) **2001d:93001**
Stewart, David E. (*with* Dewar, Robert L.) Non-linear dynamics. **2001f:37001**

34–02 Research exposition (monographs, survey articles)

Motreanu, Dumitru (*with* Pavel, Nicolae) ★ Tangency, flow invariance for differential equations, and optimization problems. (English summary) **2001k:34003**
Pavel, Nicolae *see* **Motreanu, Dumitru, 2001k:34003**

Items with secondary classifications in 34–02

Balser, Werner ★ Formal power series and linear systems of meromorphic ordinary differential equations. (English summary) **2001f:34169**
(Blazhennova-Mikulich, L. Yu.) *see* **Kuz'mina, R. P., 2001m:34119**
Chavarriga, Javier (*with* Sabatini, Marco) A survey of isochronous centers. **2001e:34056**
Kuz'mina, R. P. ★ Asymptotic methods for ordinary differential equations. (English summary) **2001m:34119**
Sabatini, Marco *see* **Chavarriga, Javier, 2001e:34056**
(Trubnikov, S. A.) *see* **Kuz'mina, R. P., 2001m:34119**

34–03 Historical (must also be assigned at least one classification number from Section 01)

(Bogolyubov, Nikolaĭ Nikolaevich) *see* **Mitropol'skiĭ, Yuriĭ Alekseevich, 2001d:34001**
Mitropol'skiĭ, Yuriĭ Alekseevich On the works of N. N. Bogolyubov in the field of nonlinear mechanics. (Russian. Russian summary) **2001d:34001**

Items with secondary classifications in 34–03

Arnol'd, V. I. Dynamical systems. (English summary) **2001m:37001**
Bandle, Catherine Matts Essén's contributions to differential equations. **2001b:35002**
(Bogolyubov, Nikolaĭ Nikolaevich) *see* **Mitropol'skiĭ, Yuriĭ Alekseevich, (2001g:81003)**
Dawidowicz, Antoni Leon Zdzisław Opial, one of the most eminent students of Tadeusz Ważewski. (Polish) **2001a:01046**
Demidov, S. S. On the paper: "On the history of qualitative methods in the theory of differential equations" [Istor.-Mat. Issled (2) No. 2(37) (1997), 283–292, 301; 1818719] by I. B. Pogrebysskiĭ. (Russian. English summary)
(Essén, Matts R.) *see* **Bandle, Catherine, 2001b:35002**
Gilev, I. V. On the history of automatic control theory, and problems of the stability of motion. (Russian. Russian summary) (*see* **2001d:00016**)
(Krein, Mark Grigor'evich) *see* **Sakhnovich, L. A., 2001a:34018**
Martynyuk, Anatoliĭ Andreevich A survey of some classical and modern developments of stability theory. **2001d:34075**
Mawhin, Jean From Tricomi's equation for synchronous motors to the periodically forced pendulum. **2001e:34069**
Mitropol'skiĭ, Yuriĭ Alekseevich The main achievements of Academician N. N. Bogolyubov in nonlinear mechanics (the Kiev period of his activity). (Russian. English, Russian and Ukrainian summaries) (*see* **2001g:81003**)
(Opial, Zdzisław) *see* **Dawidowicz, Antoni Leon, 2001a:01046**
Pelczar, Andrzej Tadeusz Ważewski—scientist and teacher. (Polish) **2001a:01058**
Pogrebysskiĭ, I. B. On the history of qualitative methods in the theory of differential equations. (Russian. English summary)
— *see also* **Demidov, S. S.**
Sakhnovich, L. A. Works by M. G. Krein on inverse problems. **2001a:34018**
(Ważewski, Tadeusz) *see* **Pelczar, Andrzej, 2001a:01058**

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Biography:
Opial, Zdzisław *see* **Dawidowicz, Antoni Leon, 2001a:01046**
Ważewski, Tadeusz *see* **Pelczar, Andrzej, 2001a:01058**

34–04 Explicit machine computation and programs (not the theory of computation or programming)

Banshchikov, A. V. (*with* Bourlakova, L. A.; Irtegov, V. D.) Problems of stability of dynamic systems and computer algebra. (English and Russian summaries) **2001k:34004**
Bourlakova, L. A. *see* **Banshchikov, A. V. et al., 2001k:34004**
Irtegov, V. D. *see* **Banshchikov, A. V. et al., 2001k:34004**
Mărușter, Stefan (*with* Negru, Viorel; Petcu, Dana; Sandru, Călin) Intelligent front-end for solving differential and non-linear equations systems. (English and Russian summaries) **2001a:34001**
Negru, Viorel *see* **Mărușter, Stefan et al., 2001a:34001**
Petcu, Dana *see* **Mărușter, Stefan et al., 2001a:34001**
Ryabenko, A. A. The MAPLE package of symbolic constructions of solutions of linear ordinary differential equations as power series. (Russian. Russian summary)
Sandru, Călin *see* **Mărușter, Stefan et al., 2001a:34001**

Items with secondary classifications in 34–04

Ashino, R. (*with* Nagase, Michihiro; Vaillancourt, R.) Behind and beyond the MATLAB ODE suite. (English summary) **2001b:65080**
Baumann, Gerd Symmetry analysis of differential equations using MathLie. (English and Russian summaries) **2001b:34073**
— ★ Symmetry analysis of differential equations with Mathematica®. (English summary) **2001k:34067**
Carminati, John (*with* Vu, Khai) Symbolic computation and differential equations: Lie symmetries. (English summary) **2001c:65005**
Choe, Won Gyu (*with* Guckenheimer, John) Using dynamical system tools in Matlab. (*see* **2001b:65008**)
Edneral, V. F. Computer evaluation of cyclicity in planar cubic system. (English summary) (*see* **2001i:68010**)
— About normal form method. (English summary) **2001e:34071**
El Kahoui, M'Hammed (*with* Weber, Andreas Günter) Deciding Hopf bifurcations by quantifier elimination in a software-component architecture. (English summary) **2001e:37063**
Guckenheimer, John *see* **Choe, Won Gyu, (2001b:65008)**
Gusyatnikova, V. N. (*with* Yumaguzhin, V. A.) Contact transformations and local reducibility of ODE to the form $y''' = 0$. (English summary) **2001k:34014a**
— (*with* Yumaguzhin, V. A.) Contact transformations and local reducibility of ODE to the form $y''' = 0$. (English summary) **2001k:34014b**
Hoang Ngoc Minh, V. (*with* Jacob, Gérard) Symbolic integration of meromorphic differential systems via Dirichlet functions. (English summary) **2001h:34124**
Hubert, Evelyne Essential components of an algebraic differential equation. (English summary) **2001k:34008**
Jacob, Gérard *see* **Hoang Ngoc Minh, V., 2001h:34124**
Nagase, Michihiro *see* **Ashino, R. et al., 2001b:65080**
Schwarz, Fritz Solving second order ordinary differential equations with maximal symmetry group. (English summary) **2001a:34002**
— Solving second-order differential equations with Lie symmetries. (English summary) **2001k:34016**
Sumbatov, A. S. Construction of the boundary of stability domains. (Russian. English and Russian summaries) **2001a:34087**
Vaillancourt, R. *see* **Ashino, R. et al., 2001b:65080**
Vasyukov, A. N. Stability of bundles of dynamical systems and related problems. (Russian. English and Ukrainian summaries) **2001c:34110**
Vu, Khai *see* **Carminati, John, 2001c:65005**
Weber, Andreas Günter *see* **El Kahoui, M'Hammed, 2001e:37063**
Xiong, Gang Qiang *see* **Yin, Zhi Yun, 2001m:34125**
Yin, Zhi Yun (*with* Xiong, Gang Qiang) Automatic solutions of Lindstedt Poincare's methods. (Chinese. English and Chinese summaries) **2001m:34125**
Yumaguzhin, V. A. *see* **Gusyatnikova, V. N., 2001k:34014a** *and* **2001k:34014b**

34–06 Proceedings, conferences, collections, etc.

(Erbe, Lynn) *see* **Boundary value problems and related topics, 2001e:34001**
(Guran, Ardéshir) *see* **Nonlinear dynamics, 2001f:34001**
(Howls, Christopher J.) *see* **Toward the exact WKB analysis of differential equations, linear or non-linear, 2001b:34001**
(Jackson, Lloyd) *see* **Boundary value problems and related topics, 2001e:34001**
(Kawai, Takahiro) *see* **Toward the exact WKB analysis of differential equations, linear or non-linear, 2001b:34001**
(Kolmanovskiĭ, Vladimir B.) *see* **Special Issue: Hereditary systems: qualitative properties and applications**
(Nenov, Svetoslav Ivanov) *see* **Colloquium: Differential Equations, 2001e:34002**
(Peterson, Allan C.) *see* **Boundary value problems and related topics, 2001e:34001**
(Rand, Richard) *see* **Nonlinear dynamics, 2001f:34001**
(Shaĭkhet, L. E.) *see* **Special Issue: Hereditary systems: qualitative properties and applications**
(Takei, Yoshitsugu) *see* **Toward the exact WKB analysis of differential equations, linear or non-linear, 2001b:34001**

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Birthday:
Jackson, Lloyd K. ★ Boundary value problems and related topics. **2001e:34001**
Boundary value problems and related topics ★ Boundary value problems and related topics. **2001e:34001**

Colloquium:
Differential Equations ★ Tenth International Colloquium on Differential Equations. **2001c:34002**
Qualitative Theory of Differential Equations ★ Proceedings of the 6th Colloquium on the Qualitative Theory of Differential Equations. **2001f:34002**
Exact steepest descent method ★ Kanzen saikyū kōkahō. (Japanese) [The exact steepest descent method] **2001h:34001**
Festschrift:
Jackson, Lloyd K. ★ Boundary value problems and related topics. **2001e:34001**
Rand, Richard H. ★ Nonlinear dynamics. **2001f:34001**
Kyoto ★ Toward the exact WKB analysis of differential equations, linear or non-linear. **2001b:34001**
Mathematical models in functional equations ★ Sūri moderu to kansū hōteishiki. [Mathematical models in functional equations] **2001d:34002**
Nonlinear dynamics ★ Nonlinear dynamics. **2001f:34001**
Painlevé systems, hypergeometric systems and asymptotic analysis ★ Painlevé kei, chōkika kei, zenkin kaiseki. (Japanese) [Painlevé systems, hypergeometric systems and asymptotic analysis] **2001d:34003**
Plovdiv ★ Tenth International Colloquium on Differential Equations. **2001e:34002**
Proceedings:
Colloquium on the Qualitative Theory of Differential Equations ★ Proceedings of the 6th Colloquium on the Qualitative Theory of Differential Equations. **2001f:34002**
Special Issue:
Hereditary systems: qualitative properties and applications ★ Special issue: Hereditary systems: qualitative properties and applications. Part I.
— ★ Special issue: Hereditary systems: qualitative properties and applications. Part II.
Symposium:
Algebraic Analysis of Singular Perturbations ★ Toward the exact WKB analysis of differential equations, linear or non-linear. **2001b:34001**
Mathematical Models in Functional Equations ★ Sūri moderu to kansū hōteishiki. [Mathematical models in functional equations] **2001d:34002**
Painlevé Systems, Hypergeometric Systems and Asymptotic Analysis ★ Painlevé kei, chōkika kei, zenkin kaiseki. (Japanese) [Painlevé systems, hypergeometric systems and asymptotic analysis] **2001d:34003**
Szeged ★ Proceedings of the 6th Colloquium on the Qualitative Theory of Differential Equations. **2001f:34002**
Toward the exact WKB analysis of differential equations, linear or non-linear ★ Toward the exact WKB analysis of differential equations, linear or non-linear. **2001b:34001**

Items with secondary classifications in 34–06

(Adamyan, Vadim M.) *see* **Differential operators and related topics, 2001a:47003** *and* **Operator theory and related topics, 2001a:47004**
(Agarwal, Ravi P.) *see* **Lakshmikantham's legacy: a tribute on his 75th birthday, 2001a:00037**
(Bates, Peter W.) *see* **Differential equations and computational simulations, 2001c:00016**
(Broomhead, David S.) *see* **Stochastic and chaotic dynamics in The Lakes, 2001e:00026**
(Busenberg, Stavros) *see* **Differential equations and applications to biology and to industry, 2001d:92001**
(Cantrell, Robert Stephen) *see* **Proceedings: Conference on Nonlinear Differential Equations, 2001f:35008**
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34Axx General theory

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34A40 Differential inequalities [see also 26D20]

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34A45 Theoretical approximation of solutions {For numerical analysis, see 65Lxx.}

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34Bxx Boundary value problems {For ordinary differential operators, see 34Lxx.}

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34C07 Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications)

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34C08 Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.)

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34C10 Oscillation theory, zeros, disconjugacy and comparison theory

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34C30 Manifolds of solutions

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34C37 Homoclinic and heteroclinic solutions

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34Dxx Stability theory [see also 37C75, 93Dxx]

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34D08 Characteristic and Lyapunov exponents

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34D35 Stability of manifolds of solutions

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34D45 Attractors [see also 37C70, 37D45]

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34Exx Asymptotic theory

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34Gxx Differential equations in abstract spaces [see also 34Lxx, 37Kxx, 47Dxx, 47Hxx, 47Jxx, 58D25]

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34K12 Growth, boundedness, comparison of solutions

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34K17 Transformation and reduction of equations and systems, normal forms

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34K20 Stability theory

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34K23 Complex (chaotic) behavior of solutions

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34Lxx Ordinary differential operators [see also 47E05]

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34L16 Numerical approximation of eigenvalues and of other parts of the spectrum

Aslanyan, Anna (*with* Davies, E. Brian) Spectral instability for some Schrödinger operators. (English summary) **2001e:34156**

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Lahmann, J. (*with* Plum, Michael) On the spectrum of the Orr-Sommerfeld equation on the semiaxis. (English summary) **2001c:34034**

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34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions

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Geist, Bruce (*with* McLaughlin, Joyce R.) Asymptotic formulas for the eigenvalues of the Timoshenko beam. (English summary) **2001k:74063**
Hinz, Andreas M. Distribution of eigenvalues in the dense point spectrum of Schrödinger operators. (English summary) **2001b:35233**
Howls, Christopher J. *see* **Álvarez, Gabriel et al., 2001f:34096**
Jakobson, Dmitry (*with* Nadirashvili, Nikolai) Eigenfunctions with few critical points. (English summary) **2001k:58062**
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Nicaise, Serge *see* **Dekoninck, Bertrand, 2001e:34047**
Sedov, A. I. *see* **Dubrovskiĭ, V. V., 2001m:34181**
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34L25 Scattering theory

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Artbazar, Galtbayar (*with* Yajima, Kenji) The L^p-continuity of wave operators for one dimensional Schrödinger operators. (English summary) **2001f:34166**
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— On the representation of Iost solutions for Dirac's equation system with disconnected coefficients [On the representation of Jost solutions for Dirac's equation system with discontinuous coefficients]. (English summary) **2001e:34159**
Khasanov, A. B. (*with* Ne^{ı}matov, A. B.) On the inverse problem of scattering theory for the perturbed finite-gap Sturm-Liouville operator. (Russian. English and Uzbek summaries) **2001m:34189**
van der Mee, Cornelis V. M. Exact solution of the Marchenko equation relevant to inverse scattering on the line. (English summary) **2001d:34140**
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Weder, Ricardo The $W_{k,p}$-continuity of the Schrödinger wave operators on the line. (English summary) **2001c:34178**
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— Factorization and small-energy asymptotics for the radial Schrödinger equation. (English summary) **2001g:81265**
— (*with* Sacks, Paul E.) Inversion of reflectivity data for nondecaying potentials. (English summary) **2001b:81156**
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Boutet de Monvel-Berthier, Anne-Marie (*with* Kotlyarov, Vladimir P.) Scattering problem for the Zakharov-Shabat equations on the semi-axis. (English summary) **2001i:35229**
Budylin, A. M. (*with* Buslaev, V. S.) The Gelfand-Levitan-Marchenko equation and the long-time asymptotics of the solutions of the nonlinear Schrödinger equation. **2001h:35168**
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Dijksma, Aad (*with* Shondin, Yu. G.) Singular point-like perturbations of the Bessel operator in a Pontryagin space. (English summary) **2001g:47079**
Dong, Shi-Hai Levinson's theorem for the Klein-Gordon equation in one dimension. (English summary) **2001k:81344**
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Li, Yi A. (*with* Promislow, Keith) The mechanism of the polarizational mode instability in birefringent fiber optics. (English summary) **2001f:35375**
Melik-Adamyan, P. È. On the spectrum and S-matrix of the Dirac operator. (Russian. English and Russian summaries) **2001g:47080**
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Nizhnik, Leonid P. (*with* Tarasov, V. G.) Direct and inverse scattering problems for multidimensional system of first-order partial differential equations. (English summary) **2001k:35236**
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— (*with* Smirnova, A. B.) A numerical method for solving the inverse scattering problem with fixed-energy phase shifts. (English summary) **2001f:65121**
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— Past and future of inverse problems. (English summary) **2001f:34024**
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Teschl, Gerald On the initial value problem of the Toda and Kac-van Moerbeke hierarchies. (English summary) **2001b:37109**
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Velicheva, E. P. (*with* Suz'ko, A. A.) Exactly solvable models and dynamic quantum systems. (Russian. Russian summary) **2001b:81155**
Weder, Ricardo Uniqueness of inverse scattering for the nonlinear Schrödinger equation and reconstruction of the potential and the nonlinearity. (English summary) (*see* **2001e:00021**)
— Inverse scattering on the line for the nonlinear Klein-Gordon equation with a potential. (English summary) **2001j:35272**
— Inverse scattering for the nonlinear Schrödinger equation and L^p–$L^{\dot{p}}$ estimates. (English summary) (*see* **2001f:81011**)

34L30 Nonlinear ordinary differential operators

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Browne, Patrick J. *see* **Binding, Paul A. et al., 2001b:34154**
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Dung, B. T. *see* **Nguyen Thanh Long et al., 2001k:34037**
Eberhard, Walter (*with* Elbert, Árpád) On the eigenvalues of half-linear boundary value problems. (English summary) **2001b:34035**
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Manásevich, Raúl (*with* Mawhin, Jean) The spectrum of p-Laplacian systems with various boundary conditions and applications. (English summary) **2001g:34022**
Mawhin, Jean *see* **Manásevich, Raúl, 2001g:34022**
Nečesal, Petr On the resonance problem for the 4th order ordinary differential equations, Fučik's spectrum. (English summary) **2001m:34043**
Nguyen Thanh Long (*with* Dung, B. T.; Thuyet, T. M.) A nonlinear boundary value problem for a nonlinear ordinary differential operator in weighted Sobolev spaces. (English summary) **2001k:34037**
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Tovbis, Alexander (*with* Venakides, Stephanos) The eigenvalue problem for the focusing nonlinear Schrödinger equation: new solvable cases. (English summary) **2001i:35266**
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Yi, Qing Some properties of the solutions of a class of nonlinear eigenvalue problems with a parameter. (Chinese. English and Chinese summaries) **2001a:34038**
Zhang, Meirong Nonuniform nonresonance of semilinear differential equations. (English summary) **2001k:34043**
Zhidkov, P. E. Basis properties of eigenfunctions of nonlinear Sturm-Liouville problems. (English summary) **2001b:34046**
— On the Riesz basis property of a system of eigenfunctions for a nonlinear problem of Sturm-Liouville type. (Russian. Russian summary) **2001f:34039**

34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)

Algunov, G. A. On the boundedness of orthonormal eigenfunctions of a class of nonlinear operators of Sturm-Liouville type with a weight function of unbounded variation on a finite interval. (Russian) **2001i:34149**
Bairamogly, M. On the asymptotics of a weighted trace of the Sturm-Liouville equation on the half-axis with boundary condition containing an operator. (Russian. English and Azerbaijani summaries) **2001f:34167**
Bandelow, U. (*with* Kaiser, Hans-Christoph; Koprucki, Thomas; Rehberg, Joachim) Spectral properties of $\mathbf{k}\cdot\mathbf{p}$ Schrödinger operators in one space dimension. (English summary) **2001i:34150**
Damanik, David (*with* Stolz, Günter) A generalization of Gordon's theorem and applications to quasiperiodic Schrödinger operators. (English summary) **2001d:34141**

Eastham, Michael S. P. On the convexity of the Sturm-Liouville spectral function with slowly decaying potential. (English summary) **2001h:34118**
Gan, Shaobo *see* **Zhang, Meirong, 2001c:34181**
Griesemer, Marcel (*with* Lutgen, Joseph) Accumulation of discrete eigenvalues of the radial Dirac operator. (English summary) **2001e:34160**
Handy, C. R. (*with* Murenzi, R.) Continuous wavelet transform analysis of one-dimensional quantum ground states. (English summary) **2001a:34151**
Hyun, Jung-Soon A comparison theorem of the eigenvalue gap for one-dimensional barrier potentials. (English summary) **2001h:34119**
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Korotyaev, E. L. Lattice dislocations in a 1-dimensional model. (English summary) **2001g:34129**
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Molchanov, Stanislav Alekseevich Multiscale averaging for ordinary differential equations. Applications to the spectral theory of one-dimensional Schrödinger operator with sparse potentials. (English summary) **2001j:34110**
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Nabiev, I. M. Multiplicity and relative position of the eigenvalues of a quadratic pencil of Sturm-Liouville operators. (Russian. Russian summary) **2001e:34161**
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Benguria, Rafael D. (*with* Loss, Michael) A simple proof of a theorem of Laptev and Weidl. (English summary) **2001c:81042**
Bentosela, François (*with* Briet, P.) Stark resonances for random potentials of Anderson type. (English and French summaries) **2001b:82026**
Blohm, Henning Solution of nonlinear equations by trace methods. (English summary) **2001i:37113**
Branson, Thomas Spectra of self-gradients on spheres. (English summary) **2001c:22014**
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Buschmann, Dirk (*with* Stolz, Günter) Two-parameter spectral averaging and localization for non-monotonic random Schrödinger operators. (English summary) **2001k:81058**
Buslaev, V. S. Kronig-Penney electron in a homogeneous electric field. (English summary) **2001b:81039**
Caliceti, Emanuela Distributional Borel summability of odd anharmonic oscillators. (English summary) **2001f:81044**
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de Castro, Antonio Soares (*with* Franklin, Jerrold) Exact solutions of the Dirac equation for modified Coulombic potentials. (English summary) **2001m:81058**
— (*with* de Souza Dutra, A.) Approximate analytical states of a polynomial potential: an example of symmetry restoration. (English summary) **2001f:65082**
Chalykh, Oleg A. (*with* Goncharenko, V. M.; Veselov, A. P.) Multidimensional integrable Schrödinger operators with matrix potential. (English summary) **2001i:37118**
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Daskalov, Vasil B. (*with* Khristov, E. Kh.) Explicit formulae for the inverse problem for the regular Dirac operator. (English summary) **2001b:34019**
Dauer, J. P. *see* **Belinskiĭ, B. P., (2001a:45003)**
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Deift, Percy Integrable systems and combinatorial theory. **2001g:05012**
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Dong, Shi-Hai Exact solutions of the two-dimensional Schrödinger equation with certain central potentials. (English summary) **2001h:81055**
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34Mxx Differential equations in the complex domain [see also 30Dxx, 32G34]

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34M05 Entire and meromorphic solutions

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34M10 Oscillation, growth of solutions

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34M15 Algebraic aspects (differential-algebraic, hypertranscendence, group-theoretical)

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34M25 Formal solutions, transform techniques

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Kinnunen, Liisa Linear differential equations with solutions of finite iterated order. (English summary) **2001i:34154**
Pflügel, Eckhard Effective formal reduction of linear differential systems. (English summary) **2001c:34185**
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Loray, Frank Réduction formelle des singularités cuspidales de champs de vecteurs analytiques. (English summary) [Formal reduction of cuspidal singularities of analytic vector fields] **2001b:34078**
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34M30 Asymptotics, summation methods

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34M35 Singularities, monodromy, local behavior of solutions, normal forms

Bolibrukh, A. A. Meromorphic transformation to Birkhoff standard form in small dimensions. (Russian. Russian summary) **2001h:34125**
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— Inégalités de Fuchs pour les systèmes différentiels réguliers. (English and French summaries) [Fuchs inequalities for regular differential systems] **2001b:34157**
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Covachev, Valéry C. (*with* Risteski, Ice B.) Regular singularities in the simple reduction of the Poincaré differential equation to Cauchy matrix form. **2001b:34006**
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34M40 Stokes phenomena and connection problems (linear and nonlinear)

Ikeda, Kensuke S. *see* **Shudo, Akira, (2001d:34003)**
Palmer, John Zeros of the Jimbo, Miwa, Ueno tau function. (English summary) **2001g:34136**
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34M45 Differential equations on complex manifolds

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— (*with* Manojlović, Nenad; Samtleben, H.) Schlesinger transformations for elliptic isomonodromic deformations. (English summary) **2001e:34164**
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34M50 Inverse problems (Riemann-Hilbert, inverse differential Galois, etc.)

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34M55 Painlevé and other special equations; classification, hierarchies; isomonodromic deformations

Aoki, Takashi (*with* Kawai, Takahiro; Takei, Yoshitsugu) Can we find a new deformation of (SL_J) with respect to the parameters contained in (P_J)? (English summary) **2001g:34137**
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Algebraic Analysis of Singular Perturbations ★ Toward the exact WKB analysis of differential equations, linear or non-linear. **2001b:34001**
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34M60 Singular perturbation problems in the complex domain (complex WKB, turning points, steepest descent) [see also 34E20]

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King, John Robert Interacting Stokes lines. (English summary) **2001g:34081**

Koike, Tatsuya On a regular singular point in the exact WKB analysis. (English summary) **2001h:34080**

— Asymptotics of the spectrum of Heun's equation and the exact WKB analysis. (English summary) **2001i:34093**

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Ramond, Thierry *see* **Fujiié, Setsuro, 2001i:34092**

Schäfke, Reinhard *see* **Fruchard, Augustin, 2001b:34102**

Stenger, Catherine ★ Points tournants de systèmes d'équations différentielles ordinaires singulièrement perturbées. (French. French summary) [Turning points of systems of singularly perturbed ordinary differential equations] **2001f:34104**

Takei, Yoshitsugu Initial value spaces of Painlevé equations and WKB analysis. (Japanese) (*see* **2001d:34003**)

— Exact WKB analysis of the harmonic oscillator and its Fourier transform—an example of interplay between exact WKB analysis and Fourier analysis.

— *see also* **Toward the exact WKB analysis of differential equations, linear or non-linear, 2001b:34001** *and* **Aoki, Takashi et al., 2001g:34137**

Items listed otherwise than by author

Kyoto ★ Toward the exact WKB analysis of differential equations, linear or non-linear. **2001b:34001**

Symposium:

Algebraic Analysis of Singular Perturbations ★ Toward the exact WKB analysis of differential equations, linear or non-linear. **2001b:34001**

Toward the exact WKB analysis of differential equations, linear or non-linear ★ Toward the exact WKB analysis of differential equations, linear or non-linear. **2001b:34001**

34M99 None of the above, but in this section

Gokhman, D. Limits in differential fields of holomorphic germs. (English summary) **2001c:34188**

Leray, Jean Prolongements analytiques de la solution d'un système différentiel holomorphe non linéaire. [Analytic continuations of the solution of a nonlinear holomorphic differential system] **2001f:34178**

Ochiai, Hiroyuki Non-commutative harmonic oscillators and Fuchsian ordinary differential operators. (English summary) (*see* **2001f:35006**)

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André, Yves[1] Séries Gevrey de type arithmétique. I. Théorèmes de pureté et de dualité. [Gevrey series of arithmetic type. I. Purity and duality theorems] **2001m:11117**

— Séries Gevrey de type arithmétique. II. Transcendance sans transcendance. [Gevrey series of arithmetic type. II. Transcendence without transcendence] **2001m:11118**

Arov, Damir Z. (*with* Dym, Harry) J-inner matrix functions, interpolation and inverse problems for canonical systems. II. The inverse monodromy problem. (English summary) **2001g:34123**

Ben Cheikh, Youssèf Differential equations satisfied by the components with respect to the cyclic group of order n of some special functions. (English summary) **2001i:33005**

Chen, Zu Ming (*with* Guan, Ke Ying) The fractal construction of the limit set produced by a transformation group generated by two Möbius transformations. (Chinese. English and Chinese summaries) **2001h:37099**

Conte, Robert (*with* Musette, Micheline) On the solitary wave of two coupled nonintegrable Ginzburg-Landau equations. (English summary) **2001d:35166**

Cortés López, Juan Carlos *see* **Jódar, L. S., 2001i:34001**

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Ghosechowdhury, Subhajit Löwner expansions. (English summary) **2001i:46036**

Grin', A. A. The cubic Dulac function for a polynomial autonomous system on a plane with right-hand sides that are nonlinearities of the fourth degree. (Russian. Russian summary) **2001j:34007**

Guan, Ke Ying *see* **Chen, Zu Ming, 2001h:37099** *and* **Lei, Jinzhi**

Hauser, Herwig (*with* Risler, Jean-Jacques; Teissier, Bernard) The reduced Bautin index of planar vector fields. **2001f:34054**

He, Wan Sheng Integrable categories of Lagrange-D'Alembert differential equations. (Chinese. English and Chinese summaries)

Ishimura, Ryuichi (*with* Okada, Yasunori) Analytic continuation of solutions to differential-difference equations. (Japanese) (*see* **2000g:00062**)

Jódar, L. S. (*with* Cortés López, Juan Carlos) Closed form general solution of the hypergeometric matrix differential equation. (English summary) **2001i:34001**

Lei, Jinzhi (*with* Guan, Ke Ying) An algorithm to judge the integrability of second order linear differential equation with rational coefficients. (English summary)

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Nishimoto, Katsuyuki N-fractional calculus of $\zeta(z)$ and $\zeta(-z)$. (English summary) **2001a:11148**

Oblomkov, A. A. Monodromy-free Schrödinger operators with quadratically increasing potential. (Russian. Russian summary) **2001a:34152**

Okada, Yasunori *see* **Ishimura, Ryuichi, (2000g:00062)**

Risler, Jean-Jacques *see* **Hauser, Herwig et al., 2001f:34054**

Shrivastava, B. M. L. *see* **Srivastava, S. S.**

Srivastava, S. S. (*with* Shrivastava, B. M. L.) Solvable potential for the Weber-Hermite equation. (English summary)

Stepanova, T. V. On analytic representation of O-solutions of a differential equation with a quasianalytic right-hand side. (English summary)

— Analytic representation of TO-solutions of a simple Bendixson equation with quasi-analytic right side. (English summary)

Suzuki, Junji Functional relations in Stokes multipliers and solvable models related to $U_q(A_n^{(1)})$. (English summary) **2001h:81272**

Teissier, Bernard *see* **Hauser, Herwig et al., 2001f:34054**

Yakovenko, Sergei On zeros of functions from Bernstein classes. (English summary) **2001e:30008**

35–XX Partial differential equations

35–01 Instructional exposition (textbooks, tutorial papers, etc.)

Billingham, John (*with* King, Andrew C.) ★ Wave motion. (English summary) **2001k:35001**
Davis, Julian L. ★ Mathematics of wave propagation. (English summary) **2001e:35001**
Edwards, David Alan[2] An alternative example of the method of multiple scales. (English summary) **2001m:35001**
Hà Tiến Ngoạn *see* **Nguyễn Minh Chu'o'ng et al., 2001i:35001**
King, Andrew C. *see* **Billingham, John, 2001k:35001**
Lê Quang Trung *see* **Nguyễn Minh Chu'o'ng et al., 2001i:35001**
Lo, Chi Y. ★ Boundary value problems. **2001k:35002**
Mbiock, Aristide (*with* Weber, Roman) ★ Radiation in enclosures. (English summary) **2001f:35001**
Nguyễn Minh Chu'o'ng (*with* Hà Tiến Ngoạn; Nguyễn Minh Trí; Lê Quang Trung) ★ Phu'o'ng trình đạo hàm riêng. (Vietnamese) [Partial differential equations] **2001i:35001**
Nguyễn Minh Trí *see* **Nguyễn Minh Chu'o'ng et al., 2001i:35001**
(Pérez, Luis Orlando Castellano) *see* **Zubelli, Jorge P., 2001m:35002**
Selvadurai, A. P. S. ★ Partial differential equations in mechanics. 1. (English summary) — ★ Partial differential equations in mechanics. 2. (English summary)
Weber, Roman *see* **Mbiock, Aristide, 2001f:35001**
Zubelli, Jorge P. ★ An introduction to inverse problems. Examples, methods and questions. **2001m:35002**

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Han, Qing[1] (*with* Lin, Fang Hua) ★ Elliptic partial differential equations. **2001d:35035**
Hayek, S. I. ★ Advanced mathematical methods in science and engineering. (English summary) **2001j:00006**
Hydon, Peter E. ★ Symmetry methods for differential equations. (English summary) **2001c:58036**
Lin, Fang Hua *see* **Han, Qing**[1], **2001d:35035**
Liu, Tai-Ping ★ Hyperbolic and viscous conservation laws. (English summary) **2001h:35119**
Miklavčič, Milan ★ Applied functional analysis and partial differential equations. **2001k:47001**
Rahman, Matiur ★ Mathematical methods with applications. (English summary) **2001e:00001**
Treves, François A treasure trove of geometry and analysis: the hyperquadric. **2001h:32056**

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CBMS-NSF Regional Conference Series in Applied Mathematics *see* **Liu, Tai-Ping. 2001h:35119**

35–02 Research exposition (monographs, survey articles)

Auscher, Pascal (*with* Barthélemy, Louise; Bénilan, Philippe; Ouhabaz, El Maati) Absence de la L^∞-contractivité pour les semi-groupes associés aux opérateurs elliptiques complexes sous forme divergence. (English and French summaries) [Absence of L^∞-contractivity for semigroups associated with complex elliptic operators in divergence form] **2001g:35001**
Barthélemy, Louise *see* **Auscher, Pascal et al., 2001g:35001**
Bénilan, Philippe *see* **Auscher, Pascal et al., 2001g:35001**
Bisyarin, M. A. *see* **Molotkov, I. A. et al., 2001j:35001**
Egorov, I. E. (*with* Fëdorov, V. E.) ★ Неклассические уравнения математической физики высокого порядка. (Russian. English and Russian summaries) [Nonclassical higher-order equations in mathematical physics] **2001i:35002**
Fëdorov, V. E. *see* **Egorov, I. E., 2001i:35002**
Georgiev, Vladimir S. ★ Semilinear hyperbolic equations. (English summary) **2001k:35003**
Gilbarg, David (*with* Trudinger, Neil S.) ★ Elliptic partial differential equations of second order. **2001k:35004**
Gramchev, Todor V. (*with* Popivanov, Pet$^{\prime}$r R.) ★ Partial differential equations. (English summary) **2001g:35002**
Lions, Pierre-Louis On some challenging problems in nonlinear partial differential equations. **2001b:35001**
Molotkov, I. A. (*with* Vakulenko, S. A.; Bisyarin, M. A.) ★ Нелинейные локализованные волновые процессы. (Russian. Russian summary) [Nonlinear localized wave processes] **2001j:35001**
Ouhabaz, El Maati *see* **Auscher, Pascal et al., 2001g:35001**
Paneah, Boris P. ★ The oblique derivative problem. (English summary) **2001i:35003**
Popivanov, Pet$^{\prime}$r R. *see* **Gramchev, Todor V., 2001g:35002**
(Roĭtberg, I. Ya.) *see* **Roĭtberg, Ya. A., 2001g:35003**
Roĭtberg, Ya. A. ★ Boundary value problems in the spaces of distributions. (English summary) **2001g:35003**
(Shibata, Yoshihiro) *see* **Georgiev, Vladimir S., 2001k:35003**
Taylor, Michael E. ★ Tools for PDE. (English summary) **2001g:35004**
Trudinger, Neil S. *see* **Gilbarg, David, 2001k:35004**
Vakulenko, S. A. *see* **Molotkov, I. A. et al., 2001j:35001**

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Appell, Jürgen M. (*with* Kalitvin, A. S.; Zabreĭko, Petr Petrovich) ★ Partial integral operators and integro-differential equations. (English summary) **2001g:47098**
Dafermos, Constantine M. ★ Hyperbolic conservation laws in continuum physics. **2001m:35212**
Gérard, Raymond (*with* Tahara, Hidetoshi) ★ Singular nonlinear partial differential equations. (English summary) **2001c:35056**
Kalitvin, A. S. *see* **Appell, Jürgen M. et al., 2001g:47098**
Kaptsov, O. V. G-defining equations: applications to nonlinear differential equations. **2001f:35026**
Kozlov, Vladimir Arkad'evich (*with* Maz'ya, Vladimir G.) ★ Differential equations with operator coefficients with applications to boundary value problems for partial differential equations. (English summary) **2001d:34090**
Maz'ya, Vladimir G. *see* **Kozlov, Vladimir Arkad'evich, 2001d:34090**
Mei, Zhen ★ Numerical bifurcation analysis for reaction-diffusion equations. (English summary) **2001h:65003**
Tahara, Hidetoshi *see* **Gérard, Raymond, 2001c:35056**
Zabreĭko, Petr Petrovich *see* **Appell, Jürgen M. et al., 2001g:47098**

35–03 Historical (must also be assigned at least one classification number from Section 01)

Bandle, Catherine Matts Essén's contributions to differential equations. **2001b:35002**
(Essén, Matts R.) *see* **Bandle, Catherine, 2001b:35002**
Germain, Paul The Tricomi equation, its solutions and their applications in fluid dynamics. **2001d:35001**
Koval'chuk, L. V. The development of the theory of the integration of partial differential equations in the work of G. V. Pfeĭffer and other Ukrainian scientists. (Ukrainian. Ukrainian summary)
(Pfeiffer, G. V.) *see* **Koval'chuk, L. V.**

Items listed otherwise than by author

Biography:
Pfeiffer, G. V. *see* **Koval'chuk, L. V.**

Items with secondary classifications in 35–03

Applebaum, David Dirac operators—from differential calculus to the index theorem. (English summary) **2001k:81003**
(Bäcklund, Albert Victor) *see* **Rogers, Colin et al., 2001f:37121**
Chemin, Jean-Yves Jean Leray et Navier-Stokes. [Jean Leray and Navier-Stokes] (*see* **2001d:01001**)
Elschner, Johannes The work of Vladimir Maz'ya on integral and pseudodifferential operators. **2001a:01047**
(Galilei, Galileo) *see* **Radelet-de Grave, P., 2001k:01025**
Heyerhoff, Markus The history of the early period of soliton theory. (English summary) (*see* **2001e:53001**)
Johnston, Mark E. *see* **Rogers, Colin et al., 2001f:37121**
Klibanov, Michael V. Carleman estimates and inverse problems in the last two decades. (English summary) **2001f:35429**
(Leray, Jean) *see* **Serrin, James, (2001d:01001)** *and* **Chemin, Jean-Yves, (2001d:01001)**
(Maz'ya, Vladimir G.) *see* **Elschner, Johannes, 2001a:01047** *and* **Movchan, A. B., 2001a:01056**
Movchan, A. B. Contributions of V. G. Maz'ya to analysis of singularly perturbed boundary value problems. **2001a:01056**
Radelet-de Grave, P. Relativité galiléenne et lois de conservation. (French summary) [Galilean relativity and conservation laws] **2001k:01025**
Rogers, Colin (*with* Schief, Wolfgang K.; Johnston, Mark E.) Bäcklund and his works: applications in soliton theory. **2001f:37121**
Rossmann, Jürgen Contributions of V. Maz'ya to the theory of boundary value problems in nonsmooth domains. **2001a:01060**
Schief, Wolfgang K. *see* **Rogers, Colin et al., 2001f:37121**
Serrin, James Jean Leray's contributions to nonlinear differential equations, fixed point theory and fluid mechanics. (*see* **2001d:01001**)

35–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 35–04

Ganzha, V. G. (*with* Meleshko, S. V.; Shapeev, V. P.) Application of the REDUCE system to the analysis of the consistency of systems of differential equations. (Russian. Russian summary) **2001f:35025**
Göktaş, Ünal (*with* Hereman, Willy) Algorithmic computation of generalized symmetries of nonlinear evolution and lattice equations. (English summary) **2001c:35009**
Hereman, Willy *see* **Göktaş, Ünal, 2001c:35009**
Meleshko, S. V. *see* **Ganzha, V. G. et al., 2001f:35025**
Schwartz, Alan L. Partial differential equations and bivariate orthogonal polynomials. (English summary) **2001i:42044**
Shapeev, V. P. *see* **Ganzha, V. G. et al., 2001f:35025**
Struppa, Daniele C. Gröbner bases in partial differential equations. **2001g:35008**

35–06 Proceedings, conferences, collections, etc.

(Bojarski, Bogdan) *see* **Evolution equations: existence, regularity and singularities, 2001c:35001**
(Cantrell, Robert Stephen) *see* **Proceedings: Conference on Nonlinear Differential Equations, 2001f:35008**
(Cattabriga, Lamberto) *see* **Workshop: Partial Differential Equations, 2001h:35001**
(Chan, Chiu Yeung) *see* **Advances in quenching**
(Cioranescu, Doina) *see* **Nonlinear partial differential equations and their applications. Collège de France Seminar, 2001b:35003**
(Colombini, Ferruccio) *see* **Carleman estimates and applications to uniqueness and control theory, 2001m:35003**
(Cosner, Chris) *see* **Proceedings: Conference on Nonlinear Differential Equations, 2001f:35008**
(Dassios, George) *see* **Mathematical methods in scattering theory and biomedical technology, 2001f:35005**
(Del Santo, D.) *see* **Workshop: Blow-up and Global Existence of Solutions for Parabolic and Hyperbolic Problems, 2001f:35009**

(Fotiadis, Dimitrios) *see* **Mathematical methods in scattering theory and biomedical technology, 2001f:35005**
(Frid, Hermano) *see* **Workshop: Partial Differential Equations: Theory, Computation and Applications, 2001i:35005** *and* **2001i:35006**
(Georgiev, Vladimir S.) *see* **Workshop: Blow-up and Global Existence of Solutions for Parabolic and Hyperbolic Problems, 2001f:35009**
(Guo, Yan) *see* **Nonlinear wave equations, 2001c:35002**
(Hounie, Jorge) *see* **Workshop: Partial Differential Equations: Theory, Computation and Applications, 2001i:35005** *and* **2001i:35006**
(Ibragimov, Nail) *see* **Modern group analysis**
(Iório, Rafael) *see* **Workshop: Partial Differential Equations: Theory, Computation and Applications, 2001i:35005** *and* **2001i:35006**
(Kenmochi, Nobuyuki) *see* **Free boundary problems: theory and applications, 2001f:35002** *and* **2001f:35003**
(Kiriaki, Kiriakie) *see* **Mathematical methods in scattering theory and biomedical technology, 2001f:35005**
(Lazer, Alan C.) *see* **Proceedings: Conference on Nonlinear Differential Equations, 2001f:35008**
(Lions, Jacques-Louis) *see* **Nonlinear partial differential equations and their applications. Collège de France Seminar, 2001b:35003**
(Mahomed, Fazal M.) *see* **Modern group analysis**
(Manásevich, Raúl) *see* **Proceedings: Workshop on Nonlinear Analysis, 2001g:35005**
(Marchesin, Dan) *see* **Workshop: Partial Differential Equations: Theory, Computation and Applications, 2001i:35005** *and* **2001i:35006**
(Maremonti, Paolo) *see* **Advances in fluid dynamics, 2001a:35001**
(Massalas, Christos V.) *see* **Mathematical methods in scattering theory and biomedical technology, 2001f:35005**
(Mitidieri, E.) *see* **Workshop: Blow-up and Global Existence of Solutions for Parabolic and Hyperbolic Problems, 2001f:35009**
(Nachbin, André) *see* **Workshop: Partial Differential Equations: Theory, Computation and Applications, 2001i:35005** *and* **2001i:35006**
(Rabinowitz, Paul H.) *see* **Proceedings: Workshop on Nonlinear Analysis, 2001g:35005**
(Roach, Gary F.) *see* **Mathematical methods in scattering theory and biomedical technology, 2001f:35005**
(Rodino, Luigi) *see* **Partial differential equations, 2001j:35002**
(Strauss, Walter A.) *see* **Nonlinear wave equations, 2001c:35002**
(Ural'tseva, N. N.) *see* **Some questions of mathematical physics and function theory, 2001m:35004**
(Vasil'ev, O. V.[1]) *see* **Boundary value problems, 2001d:35002**
(Vragov, V. N.) *see* **Nonclassical equations of mathematical physics, 2001d:35003**
(Wrzosek, Dariusz) *see* **Evolution equations: existence, regularity and singularities, 2001c:35001**
(Xiao, Ling) *see* **Some current topics on nonlinear conservation laws, 2001a:35003**
(Xin, Zhouping) *see* **Some current topics on nonlinear conservation laws, 2001a:35003**
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(Zuily, Claude) *see* **Carleman estimates and applications to uniqueness and control theory, 2001m:35003**

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Advances in fluid dynamics ★ Advances in fluid dynamics. **2001a:35001**
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Analytic studies of singularities in nonlinear evolution equations appearing in mathematical physics ★ Sūri butsuri ni arawareru hisenkei hatten hōteishiki no tokuiten no kaisekiteki kenkyū. [Analytic studies of singularities in nonlinear evolution equations appearing in mathematical physics] **2001a:35002**
Birthday:
  Ibragimov, Nail ★ Modern group analysis.
  Lazer, Alan C. ★ Proceedings of the Conference on Nonlinear Differential Equations. **2001f:35008**
  Strauss, Walter Alexander ★ Nonlinear wave equations. **2001c:35002**
Boundary value problems ★ Краевые задачи. (Russian) [Boundary value problems] **2001d:35002**
Carleman estimates and applications to uniqueness and control theory ★ Carleman estimates and applications to uniqueness and control theory. **2001m:35003**
Chiba ★ Free boundary problems: theory and applications. I. **2001f:35002**
— ★ Free boundary problems: theory and applications. II. **2001f:35003**
Conference:
  Free Boundary Problems: Theory and Applications ★ Free boundary problems: theory and applications. I. **2001f:35002**
  — ★ Free boundary problems: theory and applications. II. **2001f:35003**
  Nonlinear Differential Equations ★ Proceedings of the Conference on Nonlinear Differential Equations. **2001f:35008**
  Nonlinear Wave Equations ★ Nonlinear wave equations. **2001c:35002**
  Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **2001c:35003**
Contemporary Mathematics ★ Nonlinear wave equations. **2001c:35002**
Coral Gables, FL ★ Proceedings of the Conference on Nonlinear Differential Equations. **2001f:35008**
Cortona ★ Carleman estimates and applications to uniqueness and control theory. **2001m:35003**
Evolution equations: existence, regularity and singularities ★ Evolution equations: existence, regularity and singularities. **2001c:35001**
Ferrara ★ Workshop on Partial Differential Equations. **2001h:35001**
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  Ibragimov, Nail ★ Modern group analysis.
  Lazer, Alan C. ★ Proceedings of the Conference on Nonlinear Differential Equations. **2001f:35008**
Festschrift: (*cont'd.*)
  Roach, Gary F. ★ Mathematical methods in scattering theory and biomedical technology. **2001f:35005**
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Free boundary problems: theory and applications ★ Free boundary problems: theory and applications. I. **2001f:35002**
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Harmonic analysis and nonlinear partial differential equations ★ Chōwa kaisekigaku to hisenkei hembibun hooteishiki. (Japanese) [Harmonic analysis and nonlinear partial differential equations] **2001f:35004**
La Chapelle sur Erdre ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **2001c:35003**
Mathematical methods in scattering theory and biomedical technology ★ Mathematical methods in scattering theory and biomedical technology. **2001f:35005**
Meeting:
  Carleman Estimates and Control Theory ★ Carleman estimates and applications to uniqueness and control theory. **2001m:35003**
Memorial Issue:
  Cattabriga, Lamberto ★ Workshop on Partial Differential Equations. **2001h:35001**
Metsovo ★ Mathematical methods in scattering theory and biomedical technology. **2001f:35005**
Microlocal analysis and PDE in the complex domain ★ Chōkyokusho kaiseki to fukuso ryōiki no hembibun hōteishiki kei. [Microlocal analysis and PDE in the complex domain] **2001f:35006**
Microlocal analysis and related topics ★ Chōkyokusho kaiseki to sono shūhen. [Microlocal analysis and related topics] **2001f:35007**
Modern group analysis ★ Modern group analysis.
Nonclassical equations of mathematical physics ★ Неклассические уравнения математической физики. (Russian) [Nonclassical equations of mathematical physics] **2001d:35003**
Nonlinear evolution equations and their applications ★ Hisenkei hatten hōteishik: to sono ōyō. (Japanese) [Nonlinear evolution equations and their applications] **2001d:35004**
Nonlinear partial differential equations and their applications. Collège de France Seminar ★ Nonlinear partial differential equations and their applications. Collège de France Seminar. Vol. XIII. **2001b:35003**
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Partial differential equations ★ Partial differential equations. **2001j:35002**
Proceedings:
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  Workshop on Nonlinear Analysis ★ Proceedings of the USA-Chile Workshop on Nonlinear Analysis. **2001g:35005**
Providence, RI ★ Nonlinear wave equations. **2001c:35002**
Rio de Janeiro ★ VI Workshop on Partial Differential Equations. Part I. **2001i:35005**
— ★ VI Workshop on Partial Differential Equations. Part II. **2001i:35006**
Seminar:
  Applied Mathematics ★ Nonlinear partial differential equations and their applications. Collège de France Seminar. Vol. XIII. **2001b:35003**
  Partial Differential Equations ★ Séminaire: Équations aux Dérivées Partielles. 1999–2000. (French) [Seminar: Partial Differential Equations, 1999–2000] **2001i:35004**
Some current topics on nonlinear conservation laws ★ Some current topics on nonlinear conservation laws. **2001a:35003**
Some questions of mathematical physics and function theory ★ Некоторые вопросы математической физики и теории функций. (Russian) [Some questions of mathematical physics and function theory] **2001m:35004**
Special Issue:
  Modern group analysis ★ Modern group analysis.
Symposium:
  Analytic Studies of Singularities in Nonlinear Evolution Equations Appearing in Mathematical Physics ★ Sūri butsuri ni arawareru hisenkei hatten hōteishiki no tokuiten no kaisekiteki kenkyū. [Analytic studies of singularities in nonlinear evolution equations appearing in mathematical physics] **2001a:35002**
  Harmonic Analysis and Nonlinear Partial Differential Equations ★ Chōwa kaisekigaku to hisenkei hembibun hooteishiki. (Japanese) [Harmonic analysis and nonlinear partial differential equations] **2001f:35004**
  Microlocal Analysis and Related Topics ★ Chōkyokusho kaiseki to sono shūhen. [Microlocal analysis and related topics] **2001f:35007**
  Nonlinear Evolution Equations and their Applications ★ Hisenkei hatten hōteishik: to sono ōyō. (Japanese) [Nonlinear evolution equations and their applications] **2001d:35004**
Torino ★ Partial differential equations. **2001j:35002**
Trieste ★ Workshop on Blow-up and Global Existence of Solutions for Parabolic and Hyperbolic Problems. **2001f:35009**
Viña del Mar-Valparaiso ★ Proceedings of the USA-Chile Workshop on Nonlinear Analysis. **2001g:35005**
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35Axx General theory

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35B34 Resonances

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35B35 Stability, boundedness

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35B60 Continuation and prolongation of solutions of PDE [see also 58A15, 58A17, 58Hxx]

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35D10 Regularity of generalized solutions

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35Exx Equations and systems with constant coefficients [see also 35N05]

35E05 Fundamental solutions

Papanicolaou, Vassilis G. *see* **Radyno, Nikolai Ya., 2001f:35071**
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35E10 Convexity properties

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35E15 Initial value problems

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Quddus, M. A. Uniqueness classes for the solution of the Cauchy problem for partial differential equations. (English summary) **2001a:35004**

35E20 General theory

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Braun, Rüdiger W. (*with* Meise, Reinhold; Taylor, B. A.) A perturbation result for linear differential operators admitting a global right inverse on $\mathcal{D}'$. **2001k:35049**
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35Fxx General first-order equations and systems

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Masumoto, Makoto Hyperbolic lengths and conformal embeddings of Riemann surfaces. (English summary) **2001g:30029**

35F05 General theory of linear first-order PDE

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Lê Hùng So'n (*with* Nguyen, Thanh Van) Matrix criteria for the extension of solutions of the general linear system of partial differential equations with function coefficients. (English summary) **2001g:35038**
Meziani, Abdelhamid On real analytic planar vector fields near the characteristic set. (English summary) **2001e:35033**
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Panov, E. Yu. On the kinetic interpretation of measure-valued solutions of a first-order quasilinear equation. (Russian. English and Russian summaries) **2001k:35051**

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Berhanu, S. (*with* Hounie, Jorge) Uniqueness for locally integrable solutions of overdetermined systems. **2001k:35228**
Berrone, Lucio R. (*with* Giacomini, Hector J.) On the vanishing set of inverse integrating factors. (English summary) **2001k:37029**
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Camilli, Fabio (*with* Siconolfi, Antonio) Maximal subsolutions for a class of degenerate Hamilton-Jacobi problems. (English summary) **2001a:49028**
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Tabov, Ĭordan B. Formally integrable Mizohata systems of codimension 1. (Russian. English and Russian summaries) **2001g:35048**
Waphare, B. B. The n-dimensional vector differential operator ∇_n and its applications. (English summary) **2001c:35054**
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35F10 Initial value problems for linear first-order PDE, linear evolution equations

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Panov, E. Yu. On the kinetic interpretation of measure-valued solutions of a first-order quasilinear equation. (Russian. English and Russian summaries) **2001k:35051**
Pelyukh, A. G. On the existence and uniqueness of the analytic solution of the Cauchy problem for a nonlinear partial differential-functional equation. (Ukrainian. English summary) **2001i:35278**
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35F15 Boundary value problems for linear first-order PDE

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Mancini, Simona (*with* Totaro, Silvia) Solutions of the Vlasov equation in a slab with source terms on the boundaries. (English summary) **2001f:35398**
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35F20 General theory of nonlinear first-order PDE

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— Homogenization of Hamilton-Jacobi equations in perforated sets. **2001c:35049**
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Cannarsa, Piermarco *see* **Barron, E. N. et al., 2001c:35051** *and* **2001k:35054**
Chen, Gui-Qiang (*with* Su, Bo) Discontinuous solutions in L^∞ for Hamilton-Jacobi equations. (English summary) **2001c:35052**
Cossi, Lúcia Valéria (*with* dos Santos Filho, José Ruidival) Uniqueness of the Cauchy problem for systems of partial differential equations. (English and Portuguese summaries) **2001k:35055**
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35F30 Boundary value problems for nonlinear first-order PDE

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Apreutesei, N. C. (*with* Rosu, D.) Existence and continuous dependence on data for the telegraph system. (English summary) **2001m:35057**
Betta, Maria Francesca (*with* Mercaldo, Anna) Geometric inequalities related to Steiner symmetrization. **2001b:35058**
Boulmezaoud, Tahar Zamène (*with* Amari, Tahar) On the existence of non-linear force-free fields in three-dimensional domains. (English summary) **2001m:35058**
Celada, P. (*with* Perrotta, S.) Vectorial Hamilton-Jacobi equations with rank one affine dependence on the gradient. **2001g:35039**
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Butuzov, Valentin Fëdorovich (*with* Karashchuk, A. F.) Asymptotic behavior of the solution of a system of first-order partial differential equations with a small parameter multiplying some of the derivatives. (Russian. English and Russian summaries) **2001i:35025**
Camilli, Fabio (*with* Siconolfi, Antonio) Maximal subsolutions for a class of degenerate Hamilton-Jacobi problems. (English summary) **2001a:49028**

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Namah, Gawtum (*with* Roquejoffre, Jean-Michel) The "hump" effect in solid propellant combustion. (English summary) **2001j:80006**
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Vanegas, Carmen J. Nonlinear perturbations of systems of partial differential equations with constant coefficients. (English summary) **2001i:35045**

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Balabaev, V. E. On a system of equations in octaves in an eight-dimensional Euclidean space. (Russian. English and Russian summaries) **2001i:30050**
Bory Reyes, Juan (*with* Abreu Blaya, Ricardo) The quaternionic Riemann problem with a natural geometric condition on the boundary. (English summary) **2001e:30076**
Meziani, Abdelhamid On the integrability of Mizohata structures on the sphere S^2. (English summary) **2001g:32030**

35Gxx General higher-order equations and systems

35G05 General theory of linear higher-order PDE

Capone, Claudia (*with* Formica, Maria Rosaria) An abstract characterization of linear partial differential operators with unbounded coefficients. (English summary) **2001b:35059**
Chen, Mian Yun *see* **Tong, Xiao Jun et al., 2001f:35078**
Chen, Yi Xin[1] *see* **Ruan, Hang Yu, 2001b:35061**
Formica, Maria Rosaria *see* **Capone, Claudia, 2001b:35059**
Grammatico, C. (*with* Guidetti, D.) A remark on the range of differential operators in spaces of flat functions. (English and Italian summaries) **2001b:35060**
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Kwon, Kil Hyun *see* **Kim, Yong-Jihn et al., 2001m:35060**
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Melikhov, Sergei Nikolaevich (*with* Momm, Siegfried) Analytic solutions of convolution equations on convex sets with an obstacle in the boundary. **2001g:35040**
Mokeichev, A. V. *see* **Mokeichev, V. S., 2001k:35056**
Mokeichev, V. S. (*with* Mokeichev, A. V.) A new approach to the theory of linear problems for systems of partial differential equations. III. (Russian) **2001k:35056**
Momm, Siegfried *see* **Melikhov, Sergei Nikolaevich, 2001g:35040**
Popivanov, Pet'r R. Local solvability of some classes of linear differential operators with multiple characteristics. **2001j:35038**
Romanova, O. A. (*with* Vasil'ev, N. G.) On a class of differential equations with a Noether operator multiplying the highest derivative. (Russian. Russian summary) (*see* **2001d:35002**)
Ruan, Hang Yu (*with* Chen, Yi Xin[1]) A new method to solve nonlinear equations with variable coefficients. (Chinese. English and Chinese summaries) **2001b:35061**
Rzaev, K. U. On the local well-posedness of a Cauchy-type problem for normal chain systems. (Russian. English and Azerbaijani summaries) **2001b:35062**
Tong, Deng Ke *see* **Tong, Xiao Jun et al., 2001f:35078**
Tong, Xiao Jun (*with* Tong, Deng Ke; Chen, Mian Yun) A mean value theorem and its converse theorem for a class of higher-order partial differential equations. (Chinese. English and Chinese summaries) **2001f:35078**
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Waphare, B. B. The n-dimensional vector differential operator ∇_n and its applications. (English summary) **2001c:35054**
— Some generalized results involving a vector differential operator ∇. (English summary) **2001c:35055**
Xiang, Chang He A general form for the Duhamel principle. (Chinese. English and Chinese summaries) **2001e:35034**
Yamane, Hideshi Ramified Cauchy problem for a class of Fuchsian operators with tangent characteristics. (*see* **2001d:34003**)

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Dzhaiani, G. V. On boundary value problems for conjugate generalized harmonic functions. (English summary) **2001f:35103**
Eller, Matthias M. Carleman estimates with a second large parameter. (English summary) **2001f:35056**
Langenbruch, Michael Solvability of systems of partial differential equations for functions defined on nonconvex sets. (English summary) **2001i:35222**
Lope, Jose Ernie C. Existence and uniqueness theorems for a class of linear Fuchsian partial differential equations. (English summary) **2001b:35008**
Muro, Masakazu Hyperfunction solutions of invariant linear differential equations on prehomogeneous vector spaces. (English summary) (*see* **2001m:00025**)
Risteski, Ice B. Reduction of the Appell's system of partial differential equations to the system of total differential equations. (English summary) **2001f:35022**
Shananin, N. A. On the unique continuation of solutions of differential equations with weighted derivatives. (Russian. Russian summary) **2001i:35036**
Shevchik, V. V. Remarks on L_p-mapping properties of a model semi-elliptic differential operator. (English and Georgian summaries) **2001d:35078**
Tyurin, V. M. On some estimates in $\mathbb{R}^n$ for linear partial differential Φ_*-operators. (Russian. Russian summary) **2001m:47104**
Yamane, Hideshi Global Fuchsian Cauchy problem. (English summary) **2001i:35015**
Yamazaki, Susumu Microlocalization of the topological boundary value morphism for regular-specializable systems. (*see* **2001f:35007**)

35G10 Initial value problems for linear higher-order PDE, linear evolution equations

Angulo Pava, Jaime A dispersive system of long waves in weighted Sobolev spaces. (English summary) **2001b:35063**
Iskenderov, B. A. (*with* Suleĭmanov, S. È.) The limit amplitude principle for a higher-order equation that is well-posed in the sense of Petrovskiĭ with variable coefficients. (Russian. English and Azerbaijani summaries)
Kajitani, Kunihiko (*with* Wakabayashi, Seiichiro) Analytically smoothing effect for Schrödinger type equations with variable coefficients. **2001e:35035**
Kinoshita, Tamotu On the Cauchy problem in Gevrey classes for dispersive equations. **2001k:35057**
Korobeĭnik, Yu. F. The Fourier method in the Cauchy problem and absolutely representing systems of exponentials. I. (Russian. Russian summary) **2001i:35047**
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— The Fourier method in the Cauchy problem and absolutely representing systems of exponentials. III. (Russian. Russian summary) **2001k:35058**
Sidorov, Nikolaĭ Aleksandrovich The initial-value problem for differential equations with a Fredholm operator in the principal part. (Russian. English and Russian summaries) **2001g:35041**
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Wakabayashi, Seiichiro *see* **Kajitani, Kunihiko, 2001e:35035**

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Colombini, Ferruccio Sur le problème de Cauchy pour des opérateurs faiblement hyperboliques. [On the Cauchy problem for weakly hyperbolic operators] (*see* **2001h:35001**)
Denche, Mohamed (*with* Marhoune, A. L.) High-order mixed-type differential equations with weighted integral boundary conditions. (English summary) **2001k:35225**
Feng, Fu Ye (*with* Zheng, Hong Xing) Initial value problems of the higher-dimensional BBM equation. (Chinese. English and Chinese summaries) **2001f:35346**
Kornienko, V. V. On the Cauchy problem for irregular equations. (Russian. Russian summary) **2001d:34089**
Liang, Jin *see* **Xiao, Ti-Jun, 2001a:34099**
Marhoune, A. L. *see* **Denche, Mohamed, 2001k:35225**
Matsumoto, Waichiro The Cauchy problem for systems—through the normal form of systems and theory of weighted determinant. (English summary) **2001i:35013**
— On the Cauchy problem for systems of partial differential equations. (*see* **2001f:35007**)
Parker, G. Edgar (*with* Sochacki, James S.) A Picard-Maclaurin theorem for initial value PDEs. **2001m:35020**
Shkalikov, A. A. Factorization of elliptic pencils and the Mandelstam hypothesis. (English summary) **2001d:47071**
Sochacki, James S. *see* **Parker, G. Edgar, 2001m:35020**
Sviridyuk, G. A. Morphology of the phase space of a class of semilinear equations of Sobolev type. (Russian. English and Russian summaries) **2001h:34089**
Terada, Toshiaki An application of Noumi's theorem to the Riemann problem for Appell's F_4. (English summary) **2001b:33022**
Xiao, Ti-Jun (*with* Liang, Jin) ★ The Cauchy problem for higher-order abstract differential equations. **2001a:34099**
Zheng, Hong Xing *see* **Feng, Fu Ye, 2001f:35346**

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35G15 Boundary value problems for linear higher-order PDE

Alimov, Sh. A. On L_p-solutions of boundary value problems. (Russian)
Amanov, D. Boundary value problems for fourth-order equations in a three-dimensional domain. (Russian. English and Uzbek summaries) **2001i:35049**
Liboff, Richard L. Generalized partial differential equation and Fermat's last theorem. (English summary) **2001g:35042**
Paskalev, G. P. Non-local boundary value problem for a class of high order partial differential equations. **2001f:35079**
Yura, Koichi The Herglotz-Petrovskiĭ-Leray formula in boundary value problems. (Japanese) (*see* **2001f:35007**)

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Aliev, A. R. On the correct solvability of boundary value problems for even-order operator-differential equations with variable coefficients. (Russian. English and Russian summaries) **2001j:34071**
Berlanga Zubiaga, Ricardo (*with* Herrera, Ismael) The Gauss theorem for domain decompositions in Sobolev spaces. (English summary)
Baryachenko, E. A. Violation of the uniqueness of the solution of boundary value problems for fourth-order equations, and a characteristic billiard. (Russian. Russian summary) **2001g:35006**
Fialka, Miloslav *see* **Herrmann, Leopold, 2001g:35015**
Hachaj, Jadwiga An application of the Green method to a determination of unique solutions of iterated parabolic-elliptic problems. (English summary) **2001k:35059**
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Herrmann, Leopold (*with* Fialka, Miloslav) Oscillatory properties of equations of mathematical physics with time-dependent coefficients. (English summary) **2001g:35015**

Luo, Xue Bo *see* **Zhang, Ji Hui[1], 2001f:58045**
Manfredini, Maria The Dirichlet problem for a class of ultraparabolic equations. (English summary) **2001a:35102**
Mo, Jia Qi (*with* Zhang, Han Lin) A class of singularly perturbed nonlocal boundary value problems for higher-order nonlinear elliptic equations. (Chinese. English and Chinese summaries) **2001h:35041**
Rozanov, Yu. A. (*with* Sanso, F.) On stochastic boundary value problems for harmonic functions in Banach spaces. (Russian. Russian summary) **2001h:60115**
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Uchida, Motoo On the micro-hyperbolic boundary value problem for systems of differential equations. (English and French summaries) **2001k:35012**
Uspenskiĭ, S. V. (*with* Vasil'eva, E. N.; Yanov, S. I.) Embedding theorems for generalized Sobolev-Nikol'skiĭ-Wiener spaces and applications to differential equations. (Russian) **2001i:46057**
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35Hxx Close-to-elliptic equations

35H10 Hypoelliptic equations

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Kannai, Yakar The method of ascent and $\cos(\sqrt{A^2+B^2})$. (English and French summaries) **2001h:35025**
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Kohn, Joseph J. Hypoellipticity at points of infinite type. (English summary) **2001f:32066**
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35Jxx Partial differential equations of elliptic type [see also 58J10, 58J20]

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35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [see also 31Axx, 31Bxx]

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35J15 General theory of second-order, elliptic equations

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35J45 General theory of elliptic systems of PDE

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35J50 Variational methods for elliptic systems

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35J55 Boundary value problems for elliptic systems

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Choi, Yung Sze (*with* McKenna, P. J.) A singular Gierer-Meinhardt system of elliptic equations. (English and French summaries) **2001i:35072**
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Delgado Delgado, Manuel (*with* Suárez Fernández, Antonio) Existence of solutions for elliptic systems with Holder continuous nonlinearities. (English summary) **2001c:35069**
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35J85 Unilateral problems and variational inequalities for elliptic PDE [see also 35R35, 49J40]

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35Kxx Parabolic equations and systems [see also 35Bxx, 35Dxx, 35R30, 35R35, 58J35]

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35K10 General theory of second-order, parabolic equations

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35K35 Boundary value problems for higher-order, parabolic equations

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Brown, Russell M. (*with* Hu, Wei[1]) Boundary value problems for higher order parabolic equations. (English summary) **2001m:35148**
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Maier-Paape, Stanislaus (*with* Wanner, Thomas) Spinodal decomposition for the Cahn-Hilliard equation in higher dimensions: nonlinear dynamics. (English summary) **2001d:35083**
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Pukal's'kiĭ, I. D. The Green function for a parabolic boundary value problem, and an optimization problem. (Ukrainian. English and Ukrainian summaries) **2001i:35028**
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35K40 General theory of parabolic systems of PDE

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Garcke, Harald (*with* Novick-Cohen, Amy) A singular limit for a system of degenerate Cahn-Hilliard equations. (English summary) **2001e:35097**
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Horstmann, Dirk Lyapunov functions and L^p-estimates for a class of reaction-diffusion systems. (English summary) **2001m:35175**
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Kraenkel, R. A. (*with* Senthilvelan, M.) Symmetry analysis of an integrable reaction-diffusion equation. (English summary) **2001m:35177**
Kresin, Gershon Sharp constants and maximum principles for elliptic and parabolic systems with continuous boundary data. (English summary) **2001e:35023**
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35K45 Initial value problems for parabolic systems

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Hilhorst, Danielle (*with* Peletier, Mark A.) Convergence to travelling waves in a reaction-diffusion system arising in contaminant transport. (English summary) **2001b:35141**
Ivasishen, S. D. (*with* Kondur, O. S.) On the Green matrix of the Cauchy problem and the characterization of some classes of solutions for $\overline{2b}$-parabolic systems of arbitrary order. (Ukrainian. English and Russian summaries) **2001k:35139**
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Kirk, C. M. (*with* Olmstead, W. E.) The influence of two moving heat sources on blow-up in a reactive-diffusive medium. (English summary) **2001b:35142**
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Limić, Nedžad (*with* Rogina, Mladen) Explicit stable methods for second order parabolic systems. (English summary) **2001m:35149**
Matsumoto, Waichiro On the Cauchy problem for systems—parabolic systems. (English summary) **2001j:35129**
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Briand, Philippe (*with* Carmona, René) BSDEs with polynomial growth generators. (English summary) **2001j:60108**
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Kanel', Ya. I. (*with* Kirane, Mokhtar) Global existence and large time behavior of positive solutions to a reaction diffusion system. (English summary) **2001k:35169**
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Lin, Yan Ping (*with* Tait, R. J.) A nonlocal parabolic system with application to a thermoelastic problem. (English summary) **2001g:35105**
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Rencławowicz, Joanna Global existence and blow-up for a completely coupled Fujita type system. (English summary) **2001g:35132**
— Blow up, global existence and growth rate estimates in nonlinear parabolic systems. (English summary) **2001i:35160**
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35K50 Boundary value problems for parabolic systems

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Chen, Hua[1] *see* **Liu, Wei An et al., 2001i:35138**
Herdman, Terry (*with* Morin, Pedro; Spies, Ruben D.) Convergent spectral approximations for the thermomechanical processes in shape memory alloys. **2001a:35081**
Kozhevnikova, L. M. (*with* Mukminov, F. Kh.) Estimates for the rate of stabilization as $t \to \infty$ of the solution of the first mixed problem for a quasilinear system of second-order parabolic equations. (Russian. Russian summary) **2001i:35137**
Lai, Shao Yong *see* **Mu, Chunlai, 2001k:35141**
Lin, Zhigui (*with* Xie, Chun Hong) The blow-up rate for a system of heat equations with Neumann boundary conditions. (English summary) **2001c:35104**
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Liu, Wei An (*with* Lu, Gang[2]; Chen, Hua[1]) Viscosity solutions of fully nonlinear systems parabolic equations. **2001i:35138**
Lu, Gang[2] *see* **Liu, Wei An et al., 2001i:35138**
Merle, Frank (*with* Zaag, Hatem) A Liouville theorem for vector-valued nonlinear heat equations and applications. **2001d:35084**
Morin, Pedro *see* **Herdman, Terry et al., 2001a:35081**
Moroşanu, Costică (*with* Motreanu, Dumitru) The phase field system with a general nonlinearity. (English summary) **2001i:35139**
Motreanu, Dumitru *see* **Moroşanu, Costică, 2001i:35139**
Mu, Chunlai (*with* Lai, Shao Yong) The blow-up rate for a strongly coupled system of semilinear heat equations with nonlinear boundary conditions. (English summary) **2001k:35141**
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Nyström, Kaj Boundary value problems for parabolic Lamé systems in time-varying domains. (English summary) **2001g:35102**
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Schimperna, Giulio Singular limit of a transmission problem for the parabolic phase-field model. (English summary) **2001b:35144**
Shi, Bao Existence and uniqueness of positive solutions and bounded positive solutions of systems of Volterra reaction-diffusion equations with infinite delay. (Chinese. English and Chinese summaries) **2001d:35085**
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Alaa, N. (*with* Mounir, I.) Global existence for reaction-diffusion systems with mass control and critical growth with respect to the gradient. (English summary) **2001k:35161**
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Boni, Théodore K. On blow-up and asymptotic behavior of solutions for some semilinear parabolic systems of second order. (Italian summary) **2001i:35143**
Bouziani, Abdelfatah On a third order parabolic equation with a nonlocal boundary condition. (English summary) **2001e:35081**
Büger, Matthias On the long time behaviour of solutions of a class of autonomous reaction-diffusion systems. (English summary) **2001b:35158**
Carvalho, Alexandre N. (*with* Primo, Marcos R. T.) Boundary synchronization in parabolic problems with nonlinear boundary conditions. (English summary) **2001h:35093**
Chang, Kung-ching On the positive periodic solutions of semilinear periodic-parabolic system. (English and Chinese summaries) **2001b:35140**
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Hilhorst, Danielle (*with* Rodrigues, José-Francisco) On a nonlocal diffusion equation with discontinuous reaction. (English summary) **2001c:35256**
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Langlois, A. (*with* Marion, Martine) An upper bound for the temperature for some combustion equations in the limit of large activation energy. (English summary) **2001f:35205**
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Li, Michael Y. *see* **Wang, Liancheng, 2001m:35181**
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Rocha, Carlos *see* **Freitas, Pedro, 2001m:35174**
Rodrigues, José-Francisco *see* **Hilhorst, Danielle, 2001c:35256** *and* **Clain, Stéphane, 2001i:35295**
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Zheng, Si Ning Weakly invariant regions for reaction-diffusion systems and applications. (English summary) **2001j:35170**

35K55 Nonlinear PDE of parabolic type

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35Lxx Partial differential equations of hyperbolic type [see also 58J45]

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35L05 Wave equation

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35L10 General theory of second-order, hyperbolic equations

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35L15 Initial value problems for second-order, hyperbolic equations

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35L35 Boundary value problems for higher-order, hyperbolic equations

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35L40 General theory of hyperbolic systems of first-order PDE

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Kolev, Dimitar A. Existence of Riemann waves to hyperbolic systems. (English summary) **2001g:35151**
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35L55 Hyperbolic systems of higher-order PDE

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Laptinskiĭ, V. N. On the theory of doubly periodic solutions of linear hyperbolic partial differential systems. (Russian. English and Russian summaries) **2001a:35110**
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35L60 Nonlinear first-order PDE of hyperbolic type

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Yu, Pei[2] (*with* Gao, Ping[1]) Exponential attractors for a class of strongly damped nonlinear wave equations. (Chinese. English and Chinese summaries)
Zhang, Jie Fang Multiple soliton-solutions to the Whitham-Broer-Kaup shallow-water wave equation. (Chinese. English and Chinese summaries) **2001j:76018**

35L80 Hyperbolic PDE of degenerate type

Colombini, Ferruccio (*with* Ishida, Haruhisa; Orrú, Nicola) On the Cauchy problem for finitely degenerate hyperbolic equations of second order. (English summary) **2001g:35183**
Deryabina, A. V. On second-order hyperbolic equations with strong characteristic degeneration on the initial hyperplane. (Russian. Russian summary) **2001g:35184**
Ishida, Haruhisa (*with* Odai, Hideto) The initial value problem for some degenerate hyperbolic equations of second order in Gevrey classes. **2001f:35281**
— *see also* **Colombini, Ferruccio et al., 2001g:35183**
Mirsaburov, M. *see* **Salakhitdinov, M. S., 2001i:35217**
Odai, Hideto *see* **Ishida, Haruhisa, 2001f:35281**
Orrú, Nicola *see* **Colombini, Ferruccio et al., 2001g:35183**
Salakhitdinov, M. S. (*with* Mirsaburov, M.) Bitsadze-Samarskiĭ problems for a degenerate hyperbolic equation. (Russian. English and Uzbek summaries) **2001i:35217**
Semerdzhieva, Rositsa I. Generalized solutions of a class of linear and quasi-linear degenerated hyperbolic equations. (English summary) **2001g:35185**
— A boundary value problem for quasi-linear degenerated hyperbolic equations. **2001b:35223**
— Strong solutions for a class of quasi-linear degenerated hyperbolic equations.
Varlamov, Vladimir Long-time asymptotics of solutions of the third-order nonlinear evolution equation governing wave propagation in relaxing media. (English summary) **2001c:35163**

Items with secondary classifications in 35L80

Benvenuti, Stefano (*with* Nishitani, Tatsuo) Necessary conditions for the hyperbolicity of 2×2 systems. **2001d:35128**
Cavalcanti, M. M. (*with* Domingos Cavalcanti, V. N.; Prates Filho, J. S.; Soriano, J. A.) Existence and uniform decay of a degenerate and generalized Klein-Gordon system with boundary damping. (English summary) **2001f:35283**
— (*with* Domingos Cavalcanti, V. N.) On solvability of solutions of degenerate nonlinear equations on manifolds. (English summary) **2001g:35164**
— (*with* Domingos Cavalcanti, V. N.; Prates Filho, J. S.) Existence and stabilization of a degenerate equation with nonlinear boundary conditions. (English summary) **2001m:35233**
Cicognani, Massimo (*with* Zanghirati, Luisa) Well posedness of the Cauchy problem for nonlinear weakly hyperbolic equations. **2001e:35121**
D'Ancona, Piero (*with* Di Flaviano, Mariagrazia) An abstract degenerate hyperbolic equation with application to mixed problems. (English summary) **2001k:35223**
Dernek, Neşe On an initial boundary value problem involving the generalized EPD equation. (English summary) **2001h:35140**
Di Flaviano, Mariagrazia *see* **D'Ancona, Piero, 2001k:35223**
Domingos Cavalcanti, V. N. *see* **Cavalcanti, M. M. et al., 2001f:35283; 2001g:35164** *and* **2001m:35233**
Egorov, I. E. (*with* Fëdorov, V. E.) ★ Неклассические уравнения математической физики высокого порядка. (Russian. English and Russian summaries) [Nonclassical higher-order equations in mathematical physics] **2001i:35002**
Fëdorov, V. E. *see* **Egorov, I. E., 2001i:35002**
Hajouj, Brahim Perturbations singulières d'équations hyperboliques du second ordre non linéaires. (English summary) [Singular perturbations of second-order nonlinear hyperbolic equations] **2001f:35038**
Keyfitz, Barbara Lee (*with* Mora, Claudia A.) Prototypes for nonstrict hyperbolicity in conservation laws. (English summary) **2001d:35132**
Kubo, Akisato On the spherically symmetric solution to the mixed problem for a weakly hyperbolic equation of second order. **2001b:35190**
Mora, Claudia A. *see* **Keyfitz, Barbara Lee, 2001d:35132**
Nishitani, Tatsuo *see* **Benvenuti, Stefano, 2001d:35128**
Ono, Kosuke Asymptotic behavior for degenerate nonlinear Kirchhoff type equations with damping. **2001i:74026**
Prates Filho, J. S. *see* **Cavalcanti, M. M. et al., 2001f:35283** *and* **2001m:35233**
Reissig, Michael (*with* Yagdzhyan, K. A.) Weakly hyperbolic equation with fast oscillating coefficients. **2001i:35202**
— (*with* Yagdzhyan, K. A.) L_p-L_q decay estimates for hyperbolic equations with oscillations in coefficients. (English summary) **2001b:35019**
Selezov, Igor' Timofeevich Degenerated hyperbolic approximations of the wave theory of elastic plates. (English summary) **2001f:35399**
Soriano, J. A. *see* **Cavalcanti, M. M. et al., 2001f:35283**
Uchikoshi, Keisuke Cauchy problems for mixed-type operators. (English summary) **2001f:35287**
Yagdzhyan, K. A. *see* **Reissig, Michael, 2001b:35019** *and* **2001i:35202**
Zanghirati, Luisa *see* **Cicognani, Massimo, 2001e:35121**

35L82 Pseudohyperbolic equations

Gao, Fan A characteristic problem for nonhomogeneous ultrahyperbolic equations with four variables. (Chinese. English and Chinese summaries) **2001e:35122**
Kananthai, A. On the convolutions of the diamond kernel of Marcel Riesz. (English summary) **2001d:35141**
— On the convolution equation related to the N-dimensional ultra-hyperbolic operator. (English summary) **2001a:35128**

Mamedov, È. M. *see* **Soltanov, K. N.**
Soltanov, K. N. (*with* Mamedov, È. M.) On the Cauchy problem for a third-order equation. (Russian. English and Azerbaijani summaries)
Wang, Shi Xiang (*with* Wang, Shu Yan) The existence of solutions for a class of quasilinear pseudohyperbolic equations. (Chinese. English and Chinese summaries) **2001d:35142**
Wang, Shu Yan *see* **Wang, Shi Xiang, 2001d:35142**

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Aguirre Téllez, Manuel Antonio The inverse ultrahyperbolic Marcel Riesz kernel. (English summary) **2001g:46096**
Nomirovskiĭ, D. A. The control of pseudohyperbolic systems. (English summary) **2001j:49008**
Yang, Zhi Jian[2] Initial-boundary value problem and Cauchy problem for a quasilinear evolution equation. (English summary) **2001d:35140**

35L85 Unilateral problems; variational inequalities for hyperbolic PDE [see also 35R35, 49J40]

Guo, Xing Ming The initial boundary value problem of a mixed-typed hemivariational inequality. (English summary) **2001m:35231**
Katyshev, V. V. A variational inequality with a constraint on the solution for the wave operator. (Russian) (*see* **2001d:35003**)

35L90 Abstract hyperbolic evolution equations

Berrahmoune, Larbi Exponential decay for semilinear distributed systems with damping. (English summary) **2001k:35222**
Bizoń, Piotr Threshold behavior for nonlinear wave equations. (English summary) (*see* **2001j:00028**)
D'Ancona, Piero (*with* Di Flaviano, Mariagrazia) An abstract degenerate hyperbolic equation with application to mixed problems. (English summary) **2001k:35223**
Di Flaviano, Mariagrazia *see* **D'Ancona, Piero, 2001k:35223**
Soufyane, A. Uniform stability of displacement coupled second-order equations. (English summary) **2001m:35232**
Vitillaro, Enzo Some new results on global nonexistence and blow-up for evolution problems with positive initial energy. (English summary) **2001j:35210**
Yamazaki, Taeko Bounded solutions of quasilinear hyperbolic equations of Kirchhoff type with dissipative and forcing terms. **2001k:35224**

Items with secondary classifications in 35L90

Guo, Xing Ming On weak solution of a hyperbolic differential inclusion with nonmonotone discontinuous nonlinear term. (English summary) **2001b:35310**
— (*with* Luo, Hui) Differential inclusions with a discontinuous nonlinear term. (Chinese. English and Chinese summaries) **2001g:35281**
Kamont, Zdzisław Phase spaces for hyperbolic functional differential equations with unbounded delay. (English summary) **2001k:35284**
Lasiecka, Irena (*with* Triggiani, Roberto) Two direct proofs on the analyticity of the s.c. semigroup arising in abstract thermo-elastic equations. (English summary) **2001b:47104**
Luo, Hui *see* **Guo, Xing Ming, 2001g:35281**
Triggiani, Roberto *see* **Lasiecka, Irena, 2001b:47104**
Yagdzhyan, K. A. The Lax-Mizohata theorem for Kirchhoff-type equations. (English summary) **2001m:35229**

35L99 None of the above, but in this section

Coriasco, Sandro (*with* Rodino, Luigi) Cauchy problem for SG-hyperbolic equations with constant multiplicities. (English summary) **2001f:35282**
Rodino, Luigi *see* **Coriasco, Sandro, 2001f:35282**
Trione, Susana Elena On the elementary $(P \pm i0)^k$-ultrahyperbolic solution of the Klein-Gordon operator iterated k-times. (English summary) **2001e:35123**

Items with secondary classifications in 35L99

Bunimovich, Leonid A. Space-time chaos in spatially continuous systems. (English summary) **2001g:37145**
Chalub, Fabio A. C. C. (*with* Zubelli, Jorge P.) Integrable systems, Huygens' principle, and Dirac operators. (English summary) **2001e:58026**
Günther, Michael M. (*with* Wagner, Yvonne) Index concepts for linear mixed systems of differential-algebraic and hyperbolic-type equations. (English summary) **2001m:65101**
Kharibegashvili, S. S. On the solvability of some multidimensional versions of the Goursat problem for a first-order hyperbolic system. (Russian. Russian summary) **2001f:35389**
McCarthy, James G. (*with* Sarıoğlu, Ö.) Shock-free wave propagation in gauge theories. (English summary) **2001a:35118**
Nishimoto, Katsuyuki N-fractional calculus method to an almost wave equation. (English summary) **2001b:26012**
— N-fractional calculus method to an almost wave equation (continued). (English summary)
Sarıoğlu, Ö. *see* **McCarthy, James G., 2001a:35118**
Uchida, Motoo On the micro-hyperbolic boundary value problem for systems of differential equations. (English and French summaries) **2001k:35012**
Wagner, Yvonne *see* **Günther, Michael M., 2001m:65101**
Zubelli, Jorge P. *see* **Chalub, Fabio A. C. C., 2001e:58026**

35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80.}

35M10 PDE of mixed type

Abdrakhmanov, M. A. Estimates in Sobolev classes for the solution of the Cauchy problem for a system of equations with mixed parabolic-elliptic structure. (Russian. English, Russian and Kazakh summaries) **2001e:35124**
Antman, Stuart S. *see* **Koch, Herbert, 2001g:35189**
Bénilan, Philippe (*with* Bouhsiss, Fouzia) Un contre exemple dans le cadre des équations hyperboliques paraboliques dégénérées. (French summary) [A counterexample for degenerate parabolic hyperbolic equations] (*see* **2001c:47001**)
Bouhsiss, Fouzia *see* **Bénilan, Philippe, (2001c:47001)**
Carrillo Menéndez, José (*with* Wittbold, Petra) Uniqueness of renormalized solutions of degenerate elliptic-parabolic problems. (English summary) **2001d:35143**
Cavalcanti, M. M. (*with* Domingos Cavalcanti, V. N.; Prates Filho, J. S.; Soriano, J. A.) Existence and uniform decay of a degenerate and generalized Klein-Gordon system with boundary damping. (English summary) **2001f:35283**
— (*with* Domingos Cavalcanti, V. N.; Prates Filho, J. S.) Existence and stabilization of a degenerate equation with nonlinear boundary conditions. (English summary) **2001m:35233**
Denche, Mohamed (*with* Marhoune, A. L.) High-order mixed-type differential equations with weighted integral boundary conditions. (English summary) **2001k:35225**
Domingos Cavalcanti, V. N. *see* **Cavalcanti, M. M. et al., 2001f:35283** *and* **2001m:35233**
Dzhelikbaev, S. S. (*with* Kerimkulov, S. E.) On a local boundary value problem for the general Lavrent'ev-Bitsadze equation in a nonclassical domain. (Russian) (*see* **2001d:35003**)
Dzhuraev, T. D. (*with* Mamazhanov, M.) Some boundary value problems for higher-order equations of mixed parabolic-hyperbolic type. (Russian) **2001c:35164**
Eleev, V. A. (*with* Kumykova, S. K.) On some boundary value problems with a shift on characteristics for a mixed equation of hyperbolic-parabolic type. (Russian. English and Ukrainian summaries) **2001m:35234**
Èshmatov, B. Ė. A boundary value problem with an oblique derivative for a mixed parabolic-hyperbolic equation with a characteristic line of changing type. (Russian. English and Uzbek summaries) **2001k:35226**
Fischer, Hans-Jürgen Integral representation of solutions of some special three-dimensional linear partial differential equations of mixed type. **2001f:35284**
Haga, Jun-ichi (*with* Kikuchi, Norio) On the higher integrability for the gradients of the solutions to difference partial differential systems of elliptic-parabolic type. (English summary) **2001f:35285**
Islomov, B. (*with* Kur'yazov, D. M.) Boundary value problems for a third-order mixed loaded equation of parabolic-hyperbolic type. (Russian. English and Uzbek summaries) **2001i:35218**
Ivanov, Aleksandr Vasil'evich (*with* Rodrigues, José-Francisco) Existence and uniqueness of a weak solution to the initial mixed boundary value problem for quasilinear elliptic-parabolic equations. (Russian summary) **2001g:35186**
Karamova, A. A. *see* **Sabitov, K. B. et al., 2001b:35225**
Karatoprakliev, G. D. A nonlocal boundary-value problem for equation of mixed type in unbounded domain. **2001g:35187**
Karatopraklieva, M. G. A nonlocal boundary-value problem for a class of nonlinear equations of mixed type. **2001g:35188**
Kazimov, T. G. On one boundary value problem for model equation of a mixed type. (English and Azerbaijani summaries)
Kerimkulov, S. E. *see* **Dzhelikbaev, S. S., (2001d:35003)**
Khachev, M. M. The Dirichlet problem for the Gellerstedt equation in an infinite rectangular domain. (Russian. Russian summary) **2001h:35135**
— The Dirichlet problem for an equation of mixed type in a rectangular domain. (Russian. Russian summary) **2001m:35235**
Khudaverdiev, K. I. (*with* Namazov, F. M.) Investigation of an almost everywhere solution of a one-dimensional mixed problem for a class of semilinear symmetrically regularized long wave equations. I. (Russian. English, Russian and Azerbaijani summaries) (*see* **2001f:00019**)
Kikuchi, Norio *see* **Haga, Jun-ichi, 2001f:35285**
Koch, Herbert (*with* Antman, Stuart S.) Stability and Hopf bifurcation for fully nonlinear parabolic-hyperbolic equations. (English summary) **2001g:35189**
Kumykova, S. K. *see* **Eleev, V. A., 2001m:35234**
Kur'yazov, D. M. A boundary value problem for a loaded equation of mixed type with two lines of degeneracy. (Russian. English and Uzbek summaries) **2001i:35219**
— *see also* **Islomov, B., 2001i:35218**
Lar'kin, N. A. The nonlinear boundary value problem for the equation of mixed type. **2001b:35224**
Lerner, M. E. (*with* Repin, O. A.) On a problem with two nonlocal boundary conditions for an equation of mixed type. (Russian. Russian summary) **2001g:35190**
— (*with* Repin, O. A.) An essentially nonlocal boundary value problem for a partial differential equation. (Russian)
Lupo, Daniela (*with* Payne, Kevin R.) Existence of a principal eigenvalue for the Tricomi problem. (English summary) **2001j:35211**
— (*with* Payne, Kevin R.) On the maximum principle for generalized solutions to the Tricomi problem. (English summary) **2001k:35227**
Mamadaliev, N. K. On the solvability of nonlocal boundary value problems for an equation of parabolic-hyperbolic type. (Russian. English and Uzbek summaries) **2001j:35212**
Mamazhanov, M. *see* **Dzhuraev, T. D., 2001c:35164**
Marhoune, A. L. *see* **Denche, Mohamed, 2001k:35225**
Mirsaburov, M. A boundary value problem for a class of equations of mixed type with a nonlocal condition on parallel characteristics. (Russian. English and Uzbek summaries) **2001i:35220**
Moiseev, Evgeniĭ Ivanovich On spectral problem for the Tricomi equation. **2001d:35144**
Muminov, Z. M. On the Cauchy problem for a fourth-order equation of parabolic-hyperbolic type. (Russian. English and Uzbek summaries) **2001j:35213**
Namazov, F. M. *see* **Khudaverdiev, K. I., (2001f:00019)**
Öztürk, İlhan Boundary value problem for the class of loaded partial differential equation of mixed-parabolic type. (English summary) **2001e:35125**
Payne, Kevin R. *see* **Lupo, Daniela, 2001j:35211** *and* **2001k:35227**

Pluschke, Volker (*with* Weber, Frank) The local solution of a parabolic-elliptic equation with a nonlinear Neumann boundary condition. (English summary) **2001j:35214**
Polosin, A. A. On a boundary value problem for the Tricomi equation in a special domain. (Russian. Russian summary) **2001a:35129**
Prates Filho, J. S. *see* **Cavalcanti, M. M. et al., 2001f:35283** *and* **2001m:35233**
Pskhu, A. V. On a solution of the Frankl' problem. (Russian. Russian summary)
Repin, O. A. *see* **Lerner, M. E., 2001g:35190**
Rodrigues, José-Francisco *see* **Ivanov, Aleksandr Vasil'evich, 2001g:35186**
Romanova, N. N. Increasing the smoothness of generalized solutions of a mixed problem for a hyperbolic-parabolic equation. (Russian) (*see* **2001d:35003**)
Sabitov, K. B. (*with* Karamova, A. A.; Sharafutdinova, G. G.) On the theory of equations of mixed type with two lines of degeneration. (Russian. Russian summary) **2001b:35225**
Schroll, H. Joachim (*with* Tveito, A.) Local existence and stability for a hyperbolic-elliptic system modeling two-phase reservoir flow. (English summary) **2001d:35145**
Sharafutdinova, G. G. *see* **Sabitov, K. B. et al., 2001b:35225**
Soldatov, A. P. On solutions of the Lavrent'ev-Bitsadze system that admit zeros of infinite order. (Russian. Russian summary) **2001m:35236**
Soriano, J. A. *see* **Cavalcanti, M. M. et al., 2001f:35283**
Sushko, V. G. Asymptotic solutions of some singularly perturbed equations of mixed type. (Russian. English and Russian summaries) **2001f:35286**
Tveito, A. *see* **Schroll, H. Joachim, 2001d:35145**
Uchikoshi, Keisuke Cauchy problems for mixed-type operators. (English summary) **2001f:35287**
Weber, Frank *see* **Pluschke, Volker, 2001j:35214**
Wen, Guo Chun The Riemann-Hilbert boundary value problem for first order complex equations of mixed type. (English summary) **2001b:35226**
Wittbold, Petra *see* **Carrillo Menéndez, José, 2001d:35143**
Zarubin, A. N. An initial-boundary value problem for an equation of mixed parabolic-hyperbolic type with distributed delay. (Russian. Russian summary) **2001m:35237**

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(Aliyeva, E. T.) *see* **Soltanov, K. N., 2001g:46085**
Asanyan, D. D. (*with* Oganesyan, A. O.) Invariant solutions of the equation $u_{xx} - u_y^n u_y^m u_{yy} = g(u) u_x^l u_y^q$. (Russian. Russian and Armenian summaries)
Benzoni-Gavage, S. Stability of subsonic planar phase boundaries in a van der Waals fluid. (English summary) **2001a:76109**
Chaplain, Mark A. J. *see* **Gerisch, Alf et al., 2001m:65123**
Egorov, I. E. (*with* Fëdorov, V. E.) ★ Неклассические уравнения математической физики высокого порядка. (Russian. English and Russian summaries) [Nonclassical higher-order equations in mathematical physics] **2001i:35002**
Fëdorov, V. E. *see* **Egorov, I. E., 2001i:35002**
Gerisch, Alf (*with* Griffiths, David F.; Weiner, Rüdiger; Chaplain, Mark A. J.) A positive splitting method for mixed hyperbolic-parabolic systems. (English summary) **2001m:65123**
Germain, Paul The Tricomi equation, its solutions and their applications in fluid dynamics. **2001d:35001**
Glazatov, S. N. On some problems for doubly nonlinear parabolic equations and equations of variable type. (Russian. Russian summary) **2001k:35150**
— On some problems for doubly nonlinear parabolic equations and equations of variable type [translation of Mat. Tr. 3 (2000), no. 2, 71–110; MR 2001k:35150]. (English summary)
Griffiths, David F. *see* **Gerisch, Alf et al., 2001m:65123**
Guo, Xing Ming The initial boundary value problem of a mixed-typed hemivariational inequality. (English summary) **2001m:35231**
Guzmán Gómez, Marisela Non existence of standing waves for a Davey-Stewartson system. (English summary) **2001h:35175**
Hachaj, Jadwiga An application of the Green method to a determination of unique solutions of iterated parabolic-elliptic problems. (English summary) **2001k:35059**
Jódar, L. S. (*with* Navarro, E.; Martín Alustiza, J. A.) Exact and analytic-numerical solutions of strongly coupled mixed diffusion problems. (English summary) **2001f:35061**
Kuz'mia, A. G. Solvability of a boundary value problem for transonic flow in a nozzle. (English summary) **2001i:76068**
Lupo, Daniela (*with* Payne, Kevin R.) The dual variational method in nonlocal semilinear Tricomi problems. (English summary) **2001j:35005**
Marinescu, Constantin New considerations on Hilbert's problem. (English summary) **2001i:30044**
Martín Alustiza, J. A. *see* **Jódar, L. S. et al., 2001f:35061**
Mirsaburov, M. *see* **Salakhitdinov, M. S., 2001i:35217**
Nakhushev, A. M. A modified Cauchy problem for a fractional differentiation operator with fixed beginning and end. (Russian. Russian summary) **2001k:34010**
Navarro, E. *see* **Jódar, L. S. et al., 2001f:35061**
Oganesyan, A. O. *see* **Asanyan, D. D.**
Paskalev, G. P. Non-local boundary value problem for a class of high order partial differential equations. **2001f:35079**
Payne, Kevin R. *see* **Lupo, Daniela, 2001j:35005**
Plotnikov, Pavel I. Phase field models and gradient flow of entropy. (English summary) **2001j:35280**
Pyatkov, S. G. (*with* Abasheeva, N. L.) Solvability of boundary value problems for operator-differential equations of mixed type. (Russian. Russian summary) **2001k:35183**
Salakhitdinov, M. S. (*with* Mirsaburov, M.) Bitsadze-Samarskiĭ problems for a degenerate hyperbolic equation. (Russian. English and Uzbek summaries) **2001i:35217**
Soltanov, K. N. Some imbedding theorems and nonlinear differential equations. (English summary) **2001g:46085**
Sushko, V. G. Asymptotic representations for solutions of bisingular problems. (English and Georgian summaries) **2001g:35033**
Tian, Feng[4] Boundary value problems for quasilinear degenerate elliptic equations. (Chinese. English and Chinese summaries) **2001f:35069**
— Existence and uniqueness for solutions of boundary value problems for a class of degenerate elliptic equations. (Chinese. English and Chinese summaries) **2001i:35125**
Tomantschger, Kurt W. An integral representation of flows near the sound speed. (English and Serbo-Croatian summaries) **2001e:76080**
Weiner, Rüdiger *see* **Gerisch, Alf et al., 2001m:65123**

35M20 PDE of composite type

Aliev, A. M. (*with* Niftiev, A. A.) The inverse boundary problem relative domain for the composition type equation and its solving algorithm. (English summary)
Biler, Piotr (*with* Nadzieja, Tadeusz) A nonlocal singular parabolic problem modelling gravitational interaction of particles. (English summary) **2001g:35191**
Dzhuraev, T. D. (*with* Khashimov, A. R.) On uniqueness classes for solutions of third-order equations of composite type in unbounded domains. (Russian. English and Uzbek summaries) **2001i:35221**
Iskenderov, B. A. On behaviour of solution of the initial-boundary value problem for the Sobolev equation in cylindrical domain at $t \to +\infty$. (English summary) **2001e:35126**
Khashimov, A. R. On the uniqueness of the solution of a boundary value problem for a general third-order equation of composite type in unbounded domains. (Russian. English and Uzbek summaries)
— *see also* **Dzhuraev, T. D., 2001i:35221**
Kozhanov, A. I. Degenerate equations of Sobolev type. (Russian) **2001f:35288**
Nadzieja, Tadeusz *see* **Biler, Piotr, 2001g:35191**
Nagai, Toshitaka Behavior of solutions to a parabolic-elliptic system modelling chemotaxis. (English summary) **2001g:35192**
Niftiev, A. A. *see* **Aliev, A. M.**
Uspenskiĭ, S. V. (*with* Yanov, S. I.) On the algebraic moments of the solution of the first initial-boundary value problem for the Sobolev system in the case of special domains. (Russian. Russian summary) **2001f:35289**
— (*with* Vasil'eva, E. N.; Yanov, S. I.) On differential properties of the solution of the first mixed boundary value problem for the Sobolev system. (Russian) **2001j:35215**
Vasil'eva, E. N. *see* **Uspenskiĭ, S. V. et al., 2001j:35215**
Yanov, S. I. *see* **Uspenskiĭ, S. V. et al., 2001f:35289** *and* **2001j:35215**

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Belov, Yu. Ya. (*with* Shipina, T. N.) On an inverse problem for a system of composite type. (Russian)
Coclici, Cristian A. (*with* Moroşanu, Gheorghe; Wendland, Wolfgang L.) The coupling of hyperbolic and elliptic boundary value problems with variable coefficients. (English summary) **2001f:34027**
Jochmann, Frank A quasistationary limit and convergence to equilibrium in the drift diffusion system for semiconductors coupled with Maxwell's equations. (English summary) **2001k:82113**
Kay, Alison L. (*with* Sherratt, Jonathan A.) Spatial noise stabilizes periodic wave patterns in oscillatory systems on finite domains. (English summary) **2001h:34066**
Kozhanov, A. I. ★ Composite type equations and inverse problems. **2001a:35187**
Mirzamagomedov, K. N. The problem of the optimal control of a hyperbolic-parabolic system of equations. (Russian. English and Azerbaijani summaries)
Moroşanu, Gheorghe *see* **Coclici, Cristian A. et al., 2001f:34027**
Safarov, D. Kh. On well-posedness of problems for nonclassical systems of equations. (English summary) **2001c:35006**
Sherratt, Jonathan A. *see* **Kay, Alison L., 2001h:34066**
Shibata, Yoshihiro On the rate of decay of solutions to linear viscoelastic equation. (English summary) **2001d:35188**
Shipina, T. N. *see* **Belov, Yu. Ya.**
Wendland, Wolfgang L. *see* **Coclici, Cristian A. et al., 2001f:34027**

35M99 None of the above, but in this section

Items with secondary classifications in 35M99

Abbasova, Kh. E. (*with* Pashaev, R. T.) The investigation of the strongly generalized solution of an one-dimensional mixed problem for a class of polylinear differential equations in robot-technique. II. (English summary)
(Aliyeva, E. T.) *see* **Abbasova, Kh. E.**
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35Nxx Overdetermined systems [see also 58Hxx, 58J10, 58J15]

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Nacinovich, Mauro *see* **Hill, C. Denson, 2001i:58043**

35N05 Overdetermined systems with constant coefficients

Boiti, Chiara Some generalizations of an evolution condition given by Hörmander. (English summary) **2001m:35238**
Langenbruch, Michael Solvability of systems of partial differential equations for functions defined on nonconvex sets. (English summary) **2001i:35222**

Items with secondary classifications in 35N05

Lê Hùng So'n Some new results of Clifford analysis in higher dimensions. (English summary) **2001h:30044**

35N10 Overdetermined systems with variable coefficients (general)

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Zani, Sérgio Luís *see* **Bergamasco, Adalberto P. et al., 2001m:35062**

35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [see also 32W05, 32W10, 58J10]

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35Pxx Spectral theory and eigenvalue problems for partial differential operators [see also 47Axx, 47Bxx, 47F05]

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(Maksudov, Faramaz Gazanfar) *see* **Spectral theory of operators and its applications, 2001e:47007**

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35P05 General spectral theory of PDE

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35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO

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35P20 Asymptotic distribution of eigenvalues and eigenfunctions for PDO

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35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO

Anane, A. (*with* Benazzi, A.; Chakrone, O.) Sur le spectre d'un opérateur quasilinéaire elliptique "dégénéré". (English summary) [On the spectrum of a "degenerate" elliptic quasilinear operator] **2001k:35237**
Arias, Margarita (*with* Campos, Juan[2]; Cuesta Leon, Mabel; Gossez, Jean-Pierre) Sur certains problèmes elliptiques asymétriques avec poids indéfinis. (English and French summaries) [On some asymmetric elliptic problems with indefinite weights] **2001m:35248**
Benazzi, A. *see* **Anane, A. et al., 2001k:35237**
Benguria, Rafael D. (*with* Depassier, M. Cristina) Bounds for nonlinear eigenvalue problems. (English summary) (*see* **2001g:35005**)
Boccardo, Lucio Positive eigenfunctions for some unbounded differential operators. (English summary) **2001f:35307**
Bronski, J. C. Spectral instability of the semiclassical Zakharov-Shabat eigenvalue problem. (English summary)
Campos, Juan[2] *see* **Arias, Margarita et al., 2001m:35248**
Chakrone, O. *see* **Anane, A. et al., 2001k:35237**
Cuesta Leon, Mabel (*with* De Figueiredo, Djairo G.; Gossez, Jean-Pierre) The beginning of the Fučik spectrum for the p-Laplacian. **2001f:35308**
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Dancer, Edward Norman (*with* Perera, Kanishka) Some remarks on the Fučik spectrum of the p-Laplacian and critical groups. **2001k:35238**
De Figueiredo, Djairo G. *see* **Cuesta Leon, Mabel et al., 2001f:35308**
Depassier, M. Cristina *see* **Benguria, Rafael D., (2001g:35005)**
Drábek, Pavel Some aspects of nonlinear spectral theory. (*see* **2001f:00027**)
Gossez, Jean-Pierre *see* **Cuesta Leon, Mabel et al., 2001f:35308** *and* **Arias, Margarita et al., 2001m:35248**
Jeanjean, H. (*with* Lucia, M.; Stuart, Charles A.) The branch of positive solutions to a semilinear elliptic equation on $\mathbf{R}^N$. (English summary) **2001j:35219**
Lucia, M. *see* **Jeanjean, H. et al., 2001j:35219**
Marano, Salvatore A. (*with* Motreanu, Dumitru) Existence of two nontrivial solutions for a class of elliptic eigenvalue problems. (English summary) **2001h:35139**
Montenegro, Marcos The construction of principal spectral curves for Lane-Emden systems and applications. (English summary) **2001d:35155**
Motreanu, Dumitru *see* **Marano, Salvatore A., 2001h:35139**
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Ricceri, Biagio Existence of three solutions for a class of elliptic eigenvalue problems. (English summary) **2001j:35220**
Sango, M. Behaviour of the first eigenvalue of the p-Laplacian in a domain with a hole. (English summary) **2001k:35239**
Shibata, Tetsutaro The effect of variational framework on the spectral asymptotics for nonlinear elliptic two-parameter problems. (English summary) **2001b:35239**
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Arias, Margarita (*with* Campos, Juan[2]; Gossez, Jean-Pierre) On the antimaximum principle and the Fučik spectrum for the Neumann p-Laplacian. **2001m:35093**
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Gisin, Boris V. Spatial solitons of the nonlinear Schrödinger equation of arbitrary nonlinearity with a potential hill. **2001h:35174**
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Hadi, Islam Eddine (*with* Tsouli, N.) Strong unique continuation of eigenfunctions for p-Laplacian operator. (English summary) **2001m:35043**
Huang, Yin Xi *see* **Binding, Paul A. et al., 2001j:35116**
Jacobsen, Jon Global bifurcation problems associated with K-Hessian operators. (English summary) **2001f:35126**
— Global bifurcation for Monge-Ampère operators. **2001k:35027**
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Jiang, Mu-rong (*with* Sun, Jia Chang) Minimization and error estimates for a class of the nonlinear Schrödinger eigenvalue problems. (English summary) **2001i:35262**
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Lokshin, A. A. (*with* Lopatnikov, S. L.; Saakyan, A. S.) ★ Метод сжатых отображений в симметричной проблеме собственных значений. (Russian. Russian summary) [The method of contraction mappings in the symmetric eigenvalue problem] **2001h:47025**
Lopatnikov, S. L. *see* **Lokshin, A. A. et al., 2001h:47025**
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Matei, Ana-Maria First eigenvalue for the p-Laplace operator. **2001a:58041**
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Ouyang, Tiancheng (*with* Shi, Junping) Exact multiplicity of positive solutions for a class of semilinear problem. II. (English summary) **2001b:35117**
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Pielichowski, Wacław Uniqueness of positive solutions of quasilinear elliptic equations in nonsmooth domains. (English summary) **2001b:35118**
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Yang, Hai Tao[2] (*with* Wu, Shao Ping) On indefinite sublinear elliptic equations. (English summary) **2001b:35126**
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35P99 None of the above, but in this section

Bruno, Oscar P. (*with* Reitich, Fernando) Boundary-variation solution of eigenvalue problems for elliptic operators. (English summary) **2001m:35249**
Gadyl'shin, R. R. Systems of resonators. (Russian. Russian summary) **2001k:35240**
Reitich, Fernando *see* **Bruno, Oscar P., 2001m:35249**
Sandstede, Björn (*with* Scheel, Arnd) Gluing unstable fronts and backs together can produce stable pulses. (English summary) **2001j:35221**
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Avdonin, Sergei (*with* Ivanov, Sergei A.) Controllability types of a circular membrane with rotationally symmetric data. (English summary) **2001h:93009**
Barbaroux, Jean-Marie (*with* Germinet, François; Cheremshantsev, S. E.) Quantum diffusion and generalized Rényi dimensions of spectral measures. (English summary) **2001f:81042**
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Chanillo, Sagun (*with* Grieser, Daniel; Imai, Masaki; Kurata, Kazuhiro; Ohnishi, I.) Symmetry breaking and other phenomena in the optimization of eigenvalues for composite membranes. (English summary) **2001i:49077**
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Fujita, Keiko Hilbert spaces of eigenfunctions of the Laplacian. (English summary) **2001m:46058**
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Iliev, Plamen q-KP hierarchy, bispectrality and Calogero-Moser systems. (English summary) **2001g:37128**
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Schwartz, Alan L. Partial differential equations and bivariate orthogonal polynomials. (English summary) **2001i:42044**
Shubov, Marianna A. Riesz basis property of root vectors of nonselfadjoint operators generated by radial damped wave equations. (English summary) **2001b:47077**
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— *see also* **Grunau, Hans-Christoph, 2001g:35059**
Valiño Alonso, Baldomero (*with* Alvarez Cruz, Amaury) Canonical operators in the study of wave propagation. (Spanish. English and Spanish summaries) **2001g:76007**
Vogt, Hendrik *see* **Liskevich, Vitali, 2001f:35293**
Zelditch, Steve Spectral determination of analytic bi-axisymmetric plane domains. (English summary) **2001k:58064**

35Qxx Equations of mathematical physics and other areas of application [see also 35J05, 35J10, 35K05, 35L05]

Biler, Piotr (*with* Karch, Grzegorz; Dolbeault, Jean; Esteban, Maria J.) Stationary solutions, intermediate asymptotics and large-time behaviour of type II Streater's models. (English summary) **2001i:35234**
Dolbeault, Jean *see* **Biler, Piotr et al., 2001i:35234**
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Nelson, David R. Population dynamics and Burgers' equation [MR 2001f:92018]. (English summary) (*see* **2001e:82002**)
Okoya, S. S. On closed-form solutions of some nonlinear partial differential equations. (English summary) **2001i:35040**

35Q05 Euler-Poisson-Darboux equation and generalizations

Bushkov, S. V. *see* **Volkodavov, V. F. et al.**
Chen, Gui-Qiang (*with* LeFloch, Philippe G.) Compressible Euler equations with general pressure law. (English summary) **2001f:35309**
Cordoba, Diego Vortex stretching by a simple hyperbolic saddle. (English summary) **2001a:35141**
Deroek, Neşe On an initial boundary value problem involving the generalized EPD equation. (English summary) **2001h:35140**
Jiu, Quan-sen A remark on existence and uniqueness of two-dimensional Euler equations. (English and Chinese summaries) **2001f:35310**
Junca, S. (*with* Rascle, Michel) Relaxation of the isothermal Euler-Poisson system to the drift-diffusion equations. (English summary) **2001f:35311**
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Peng, Yue-Jun Convergence of the fractional step Lax-Friedrichs scheme and Godunov scheme for a nonlinear Euler-Poisson system. **2001f:35312**
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Volkodavov, V. F. (*with* Rodionova, I. N.; Bushkov, S. V.) Solution of a modified Cauchy problem by the Riemann method for a three-dimensional analogue of the Euler-Darboux equation with a negative parameter. (Russian. Russian summary)
— (*with* Mansurova, E. R.) A boundary value problem for a particular form of the Euler-Darboux equation with integral conditions and special conjugation conditions on the characteristic. (Russian)
Yang, Han A note on the lifespan of smooth solutions to the three dimensional compressible isentropic Euler equations. (English summary) **2001e:35136**
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Brenier, Yann Convergence of the Vlasov-Poisson system to the incompressible Euler equations. (English summary) **2001c:76124**

Catrina, Florin (*with* Wang, Zhi Qiang[1]) On the Caffarelli-Kohn-Nirenberg inequalities. (English and French summaries) **2001h:46047**
Chavanis, Pierre-Henri Quasilinear theory of the 2D Euler equation. (English summary) **2001a:76041**
Dernek, Neşe On a power series solution of a special type singular Cauchy problem. (English summary) **2001b:35052**
Dutrifoy, Alexandre Construction d'une fonction f continue de $[0, 1]$ dans certains espaces de Banach et non mesurable de $[0, 1]$ dans un autre, de topologie légèrement plus forte. (English summary) [Construction of a continuous function f on $[0, 1]$ in certain Banach spaces that is nonmeasurable on $[0, 1]$ in another Banach space with slightly stronger topology] **2001e:28006**
Dzhaiani, G. V. Initial and boundary value problems for singular differential equations and applications to the theory of cusped bars and plates. (English summary) **2001g:74047**
Gonczerzewicz, Jan (*with* Hilhorst, Danielle) Large time behaviour of a class of solutions of second order conservation laws. (English summary) **2001f:35251**
He, Cheng (*with* Xiao, Ling) Two-dimensional Euler equations in a time dependent domain. **2001e:76011**
He, Xinyu Self-similar singularities of the 3D Euler equations. (English summary) **2001a:76016**
Hilhorst, Danielle *see* **Gonczerzewicz, Jan, 2001f:35251**
Khablov, V. V. On the representation of solutions of the Euler equations of hydrodynamics and magnetohydrodynamics in terms of solutions of variational equations. (Russian) (*see* **2001d:35003**)
Li, Dening (*with* Qian, Sixin) Solutions for a hydrodynamic model of semiconductors. (English summary) **2001c:82084**
Matsuno, Yoshimasa Reduction of dispersionless coupled Korteweg-de Vries equations to the Euler-Darboux equation. (English summary) **2001m:35273**
Nouri, A. An Euler-Poisson system in plasmas. (English summary) **2001a:76154**
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Secchi, Paolo On the singular incompressible limit of inviscid compressible fluids. (English summary) **2001g:35220**
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Vivas, Ana Luz (*with* Rendón, Leonardo) Compensated compactness applied to a polytropic gas. (Spanish. Spanish summary) **2001g:35160**
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Xiao, Ling (*with* Zhang, Kai Jun) The relaxation of the hydrodynamic model for semiconductors to the drift-diffusion equations. (English summary) **2001g:82118**
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Young, Robin Periodic solutions to conservation laws. (English summary) **2001f:35255**
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35Q15 Riemann-Hilbert problems [see also 30E25, 31A25, 31B20]

Akal, M. On a generalized Riemann-Hilbert boundary value problem for second order elliptic systems in the plane. (English summary) **2001d:35156**
Akhalaya, G. Ya. *see* **Mandzhavidze, G. F., 2001c:35183**
Fokas, A. S. (*with* Kapaev, A. A.) A Riemann-Hilbert approach to the Laplace equation. (English summary) **2001k:35241**
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Mandzhavidze, G. F. (*with* Akhalaya, G. Ya.) Boundary value problems of the theory of generalized analytic vectors. (English summary) **2001c:35183**
Shadrina, N. N. On the Riemann-Hilbert problem for the generalized Moisil-Teodorescu system. (Russian. Russian summary) (*see* **2001d:35002**)

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Abreu Blaya, Ricardo (*with* Bory Reyes, Juan) Boundary value problems for quaternionic monogenic functions on non-smooth surfaces. (English summary) **2001f:30056**
Avdyushina, E. V. *see* **Kaloerov, S. A., 2001m:74028**
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Deift, Percy Integrable operators. (English summary) **2001d:47073**
Gogonea, Sorin Some generalizations of the boundary-value problem of Volterra. **2001d:30073**
Huang, Sha (*with* Wen, Guo Chun) The Riemann-Hilbert boundary value problem for general elliptic complex equations of second order. (English and Chinese summaries) **2001f:30043**
Kaloerov, S. A. (*with* Avdyushina, E. V.) Stress concentration in an anisotropic half space with cylindrical cavities and plane cracks. (English summary) **2001m:74028**
Krutitskaya, N. Ch. (*with* Krutitskiĭ, P. A.; Malysheva, G. Yu.) On electron plasma dynamics in a magnetized semiconductor film with an electrode located at an arc of the circumference. (Russian. English and Russian summaries) **2001g:82115**
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Kudryavtsev, M. A. The Riemann problem with additional singularities. (Russian. English, Russian and Ukrainian summaries) **2001g:30025**
Malysheva, G. Yu. *see* **Krutitskaya, N. Ch. et al., 2001g:82115**
Mityushev, Vladimir V. (*with* Rogosin, Sergei V.) ★ Constructive methods for linear and nonlinear boundary value problems for analytic functions. **2001d:30075**
Pelloni, Beatrice Initial-boundary value problems for the nonlinear Schrödinger equation. (Russian. Russian summary) **2001e:35156**
Rogosin, Sergei V. On well-posedness of one-sided nonlinear boundary value problems for analytic functions. (English summary) **2001d:30077**
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Wen, Guo Chun *see* **Huang, Sha, 2001i:30043**
Yoshino, Masafumi Global solvability of Monge-Ampère type equations. (English summary) **2001h:35028**

35Q30 Stokes and Navier-Stokes equations [see also 76D05, 76D07, 76N10]

Alliot, F. (*with* Amrouche, Chérif) Weak solutions for the exterior Stokes problem in weighted Sobolev spaces. (English summary) **2001f:35313**
Amirat, Youcef (*with* Bresch, Didier; Lemoine, Jérôme; Simon, Jacques) Existence of semi-periodic solutions of steady Navier-Stokes equations in a half space with an exponential decay at infinity. (English summary) **2001b:35240**
Amrouche, Chérif (*with* Girault, Vivette; Schonbek, Maria Elena; Schonbek, Tomas P.) Pointwise decay of solutions and of higher derivatives to Navier-Stokes equations. (English summary) **2001c:35184**
— *see also* **Alliot, F., 2001f:35313**
Animalu, C. Nkemamaka Proof of the existence and smoothness of incompressible spatially periodic solutions of the Navier-Stokes equations by an exact solution technique. (English summary)
Babin, Anatolii V. (*with* Mahalov, Alex; Nicolaenko, Basil) Global regularity of 3D rotating Navier-Stokes equations for resonant domains. (English summary) **2001b:35241**
Beirão da Veiga, Hugo On the smoothness of a class of weak solutions to the Navier-Stokes equations. (English summary) **2001m:35250**
Benabidallah, Rachid Résolubilité globale de l'équation d'un gaz visqueux isotherme dans un domaine non borne compris entre deux plans. (English summary) [Global solvability of the isothermal viscous gas equation in an unbounded domain lying between two planes] **2001e:35137**
Brandolese, Lorenzo On the localization of symmetric and asymmetric solutions of the Navier-Stokes equations in $\mathbb{R}^n$. (English and French summaries) **2001m:35251**
Bresch, Didier *see* **Amirat, Youcef et al., 2001b:35240**
Buffoni, Boris (*with* Toland, John Francis) Dual free boundaries for Stokes waves. (English and French summaries) **2001j:35222**
Cannone, Marco (*with* Planchon, Fabrice) Fonctions de Lyapunov pour les équations de Navier-Stokes. [Lyapunov functions for Navier-Stokes equations] **2001m:35252**
— (*with* Planchon, Fabrice; Schonbek, Maria Elena) Strong solutions to the incompressible Navier-Stokes equations in the half-space. (English summary) **2001d:35157**
— (*with* Planchon, Fabrice) On the regularity of the bilinear term for solutions to the incompressible Navier-Stokes equations. (English summary) **2001d:35158**
Chao, Xiao Li *see* **Wu, Hong Wei et al., 2001g:35214**
Chemin, Jean-Yves Théorèmes d'unicité pour le système de Navier-Stokes tridimensionnel. [Uniqueness theorems for the three-dimensional Navier-Stokes system] **2001c:35185**
Chen, Da Duan (*with* Shi, Wei Hui) On the formal solution of initial value problem of Navier-Stokes equation. (Chinese. English and Chinese summaries) **2001k:35242**
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35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments

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35R12 Impulsive partial differential equations

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Nakagawa, Kiyokazu Existence of a global solution for an impulsive semilinear parabolic equation and its asymptotic behaviour. (English summary) **2001e:35170**
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35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [see also 46Gxx, 58D25]

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Emura, Takesi Some class of infinite dimensional hyperbolic systems of PDEs. (English summary) **2001b:35288**
Feller, M. N. Notes on infinite-dimensional non-linear elliptic equations. I. (English summary) **2001a:35182**
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— Notes on infinite-dimensional nonlinear parabolic equations. (Russian. English and Ukrainian summaries) **2001m:35308**
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Park, Yong Moon (*with* Yoo, Hyun Jae) Dirichlet forms and diffusion processes in infinite-dimensional spaces. (Korean. Korean summary) **2001m:35309**
Priola, Enrico (*with* Zambotti, Lorenzo) New optimal regularity results for infinite-dimensional elliptic equations. (Italian summary) **2001f:35418**
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Feller, M. N. Cauchy problem for non-linear equations involving the Levy Laplacian with separable variables. (English summary) **2001f:47102**
Finkelshtein, D. L. (*with* Us, G. F.) On exponential model of Poisson spaces. (English summary) **2001j:28012**
Kuzhel', S. A. On some properties of abstract wave equation. (English summary) **2001e:47014**
Leiva, Hugo Bounded solutions of a second order evolution equation and applications. (English summary) **2001k:34108**
Long, Hongwei Necessary and sufficient conditions for the symmetrizability of differential operators over infinite dimensional state spaces. (English summary) **2001e:28023**
Saitô, Kimiaki (*with* Tsoi, Allanus H.) The Lévy Laplacian acting on Poisson noise functionals. (English summary) **2001i:46073**
Scarlatti, Sergio On some new type of infinite-dimensional Laplacians. (English summary) **2001e:60009**
Sukhinin, M. F. On the Bellman approach to optimal control theory. (Russian. Russian summary) **2001d:49048**
Tsoi, Allanus H. *see* **Saitô, Kimiaki, 2001i:46073**
Us, G. F. Functions of countable families of commuting selfadjoint operators. (English summary) **2001d:46060**
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35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [see also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H20, 47Jxx]

Dzhabrailov, M. S. Coercive solvability of operator-differential equations in spaces of vector-valued functions of Besov-Nikol'skiĭ type. (Russian. English and Azerbaijani summaries)
Gumbatov, F. D. An estimate for the collapse moment of solutions of a nonlinear operator-differential equation. (Russian. English and Azerbaijani summaries)
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Glushak, A. V. Iterated Cauchy and Dirichlet problems with a Bessel operator in a Banach space. (Russian) **2001g:34082**
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Romanenko, Ĭ. B. Reduction of general nonlinear parabolic boundary value problems to operator equations. (Ukrainian. English and Ukrainian summaries) **2001m:35183**
Shardlow, Tony Geometric ergodicity for stochastic PDEs. (English summary) **2001e:60132**
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35R25 Improperly posed problems for PDE

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Ames, Karen A. (*with* Payne, Lawrence E.) Saint-Venant type decay results for ill-posed elliptic problems. (English summary) **2001e:35171**
Dzhuraev, I. N. (*with* Pulatov, P. A.) On the boundary inverse heat conduction problem. (Russian) **2001i:35281**
Francini, Elisa Stability results for solutions of a linear parabolic noncharacteristic Cauchy problem. (English summary) **2001g:35258**
Hayasida, Kazuya On some improperly posed problem for a degenerate nonlinear parabolic equation. (English summary) **2001g:35259a**
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Kenne, È. Perturbation of a two-point problem. (Russian. English and Ukrainian summaries) **2001m:35311**
Knowles, Ian Coefficient identification in elliptic differential equations. (English summary) **2001f:35419**
Payne, Lawrence E. *see* **Ames, Karen A., 2001e:35171**
Pulatov, P. A. *see* **Dzhuraev, I. N., 2001i:35281**
Rionero, Salvatore (*with* Torcicollo, I.) On an ill-posed problem in nonlinear heat conduction. (English summary) **2001c:35240**
Torcicollo, I. *see* **Rionero, Salvatore, 2001c:35240**
Wang, Ping[4] (*with* Zheng, Kewang) Determination of the source/sink term in a heat equation. (English summary) **2001f:35420**
Zheng, Kewang *see* **Wang, Ping[4], 2001f:35420**

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Alaminov, M. Kh. On the uniqueness and stability of the solution of the Cauchy problem for an even-order degenerate differential inequality. (Russian. English and Uzbek summaries) **2001m:35330**
Atanbaev, S. A. On one generalization of the quasireversion method. (English summary) **2001m:65077**
Balser, Werner (*with* Miyake, Masatake) Summability of formal solutions of certain partial differential equations. (English summary) **2001f:35018**
Bruckner, Gottfried (*with* Yamamoto, Masahiro) On a noisy operator equation and the identification of point-sources in the 1-D wave equation. (English summary) **2001c:47017**
Bukhgeim, A. L. ★ Volterra equations and inverse problems. **2001b:45005**
Burrage, Kevin (*with* Piskarev, S.) Stochastic methods for ill-posed problems. (English summary) **2001i:65069**
Colombini, Ferruccio (*with* Nishitani, Tatsuo) Équations faiblement hyperboliques du deuxième ordre et classes de fonctions ultradifférentiables. (English and French summaries) [Weakly hyperbolic equations of second order and classes of ultradifferentiable functions] **2001j:35178**
Engl, Heinz W. (*with* Zou, Jun) A new approach to convergence rate analysis of Tikhonov regularization for parameter identification in heat conduction. (English summary) **2001k:35131**
Fridman, Buma (*with* Kuchment, Peter; Ma, Daowei; Papanicolaou, Vassilis G.) Solution of the linearized inverse conductivity problem in a half space via integral geometry. (English summary) **2001b:35293**
Herraiz, L. A. *see* **Lacey, A. A., 2001g:35274**
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Lacey, A. A. (*with* Herraiz, L. A.) Macroscopic models for melting derived from averaging microscopic Stefan problems. I. Simple geometries with kinetic undercooling or surface tension. (English summary) **2001g:35274**
Leitão, A. On inverse problems modeled by PDE's. (English and Portuguese summaries) **2001k:35295**
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Miyake, Masatake *see* **Balser, Werner, 2001f:35018**
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Paneah, Boris P. ★ The oblique derivative problem. (English summary) **2001i:35003**
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Tzvetkov, Nickolay Remark on the local ill-posedness for KdV equation. (English and French summaries) **2001f:35359**
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35R30 Inverse problems (undetermined coefficients, etc.) for PDE

Abdel-Halim, I. H. Higher dimensional inverse problem of the wave equation for a bounded domain with mixed boundary conditions. (English summary)
Alessandrini, Giovanni Generic uniqueness and size estimates in the inverse conductivity problem with one measurement. **2001b:35290**
— (*with* Di Cristo, M.) Unique determination of surface breaking cracks in three-dimensional bodies. (English summary) **2001k:35290**
(Aliyeva, E. T.) *see* **Namazov, G. K., 2001g:35266**
Amano, Kazuo A finite difference model for Calderón's boundary inverse problem. (English summary) **2001a:35184**
Anikonov, Yu. E. (*with* Pyatkov, S. G.) Some representations of solutions of inverse problems for second-order equations. (Russian) (*see* **2001d:35003**)
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— Some problems of the theory of multidimensional inverse problems. (English summary) **2001f:35421**
Avdeev, A. V. (*with* Soboleva, Olga N.; Priimenko, V. I.) Inverse problem of electromagnetoelasticity: simultaneous determination of elastic and electromagnetic parameters. (English summary) **2001a:35185**
Ayupova, N. B. (*with* Golubyatnikov, V. P.) On formal solutions of multidimensional evolution equations. (Russian. Russian summary) **2001f:35422**
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Danilov, Vladimir G. (*with* Frolovichev, S. M.) Exact asymptotics of the density of the transition probability for discontinuous Markov processes. (English summary) **2001g:35032**

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35S15 Boundary value problems for PsDO

Jacob, Niels (*with* Moroz, V. B.) On the semilinear Dirichlet problem for a class of nonlocal operators generating Dirichlet forms. (English summary) **2001h:35200**

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Schrohe, Elmar (*with* Schulze, Bert-Wolfgang) Edge-degenerate boundary value problems on cones. (English summary) **2001m:35334**

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35S30 Fourier integral operators

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Ruzhansky, Michael V. Singularities of affine fibrations in the theory of regularity of Fourier integral operators. (Russian. Russian summary) **2001i:35317**

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Ekincioğlu, Ismail (*with* Şerbetçi, Ayhan) On the singular integral operators generated by the generalized shift operator. (English summary) **2001g:47094**

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— (*with* Seeger, Andreas; Wainger, Stephen) Estimates for generalized Radon transforms in three and four dimensions. (English summary) **2001j:58047**

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Kaĭkina, E. I. (*with* Naumkin, Pavel I.; Shishmarëv, I. A.) On the asymptotic behavior of solutions of a periodic problem for a wide class of nonlinear evolution equations. (Russian)

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35S50 Paradifferential operators

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35S99 None of the above, but in this section

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Chemin, Jean-Yves *see* **Bahouri, Hajer et al., 2001i:58057**

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Semenko, E. V. On the well-posedness of a degenerate problem with an oblique derivative. (Russian) **2001f:35162**

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37–XX Dynamical systems and ergodic theory [see also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX]

37–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Bishop, Steven R. *see* **Kapitaniak, Tomasz, 2001a:37001**
Kapitaniak, Tomasz (*with* Bishop, Steven R.) ★ The illustrated dictionary of nonlinear dynamics and chaos. (English summary) **2001a:37001**

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37–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Chan Man Fong, C. F. (*with* De Kee, D.) ★ Perturbation methods, instability, catastrophe and chaos. **2001j:37001**
(Christiansen, Peter Leth) *see* **Scott, A. C., 2001h:37002**
De Kee, D. *see* **Chan Man Fong, C. F., 2001j:37001**
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Hoppensteadt, Frank C. ★ Analysis and simulation of chaotic systems. (English summary) **2001h:37001**
Hu, Pei Chu (*with* Yang, Chung-Chun) ★ Differentiable and complex dynamics of several variables. (English summary) **2001i:37001**
Lu, Qi Shao Dynamic problems of nonlinear complex systems. (Chinese. English and Chinese summaries)
Lynch, Stephen ★ Dynamical systems with applications using MAPLE. (English summary) **2001k:37001**
Martelli, Mario Umberto ★ Introduction to discrete dynamical systems and chaos. **2001k:37002**
Robinson, Clark ★ Dynamical systems. (English summary) **2001k:37003**
Scott, A. C. ★ Nonlinear science. (English summary) **2001h:37002**
(Sørensen, Mads Peter) *see* **Scott, A. C., 2001h:37002**
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Chueshov, Igor D. ★ Введение в теорию бесконечномерных диссипативных систем. (Russian. English and Russian summaries) [Introduction to the theory of infinite-dimensional dissipative systems] **2001k:37126**
Demazure, Michel ★ Bifurcations and catastrophes. (English summary) **2001m:37096**
Jürgens, Hartmut *see* **Peitgen, Heinz-Otto et al., 2001a:00001**
Kim, Yon-Mi *see* **Yu, Se-Ra, 2001m:37068**
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Peitgen, Heinz-Otto (*with* Jürgens, Hartmut; Saupe, Dietmar; Maletsky, Evan; Perciante, Terry) ★ Fractals for the classroom: strategic activities. Vol. 3. (English summary) **2001a:00001**
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Virgin, Lawrence N. ★ Introduction to experimental nonlinear dynamics. (English summary) **2001f:70001**
(Wallace, Jana) *see* **Peitgen, Heinz-Otto et al., 2001a:00001**
Yu, Se-Ra (*with* Kim, Yon-Mi) Chaos and Lyapunov exponent. (English summary) **2001m:37068**

37–02 Research exposition (monographs, survey articles)

Bunimovich, Leonid A. (*with* Dani, S. G.; Dobrushin, Roland L'vovich; Jakobson, Michael; Kornfeld, I. P.; Maslova, N. B.; Pesin, Yakov B.; Sinaĭ, Ya. G.; Smillie, John; Sukhov, Yu. M.; Vershik, A. M.) ★ Dynamical systems, ergodic theory and applications. (English summary) **2001k:37004**
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Dobrushin, Roland L'vovich *see* **Bunimovich, Leonid A. et al., 2001k:37004**
Driebe, Dean J. ★ Fully chaotic maps and broken time symmetry. (English summary) **2001i:37002**
(Holmes, Philip J.) *see* **Moser, Jürgen K., 2001k:37005**
Jakobson, Michael *see* **Bunimovich, Leonid A. et al., 2001k:37004**
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Maslova, N. B. *see* **Bunimovich, Leonid A. et al., 2001k:37004**
Moser, Jürgen K. ★ Stable and random motions in dynamical systems. (English summary) **2001k:37005**
Pesin, Yakov B. *see* **Bunimovich, Leonid A. et al., 2001k:37004**
(Prigogine, Ilya) *see* **Driebe, Dean J., 2001i:37002**
Sinaĭ, Ya. G. *see* **Bunimovich, Leonid A. et al., 2001k:37004**
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Baladi, Viviane ★ Positive transfer operators and decay of correlations. (English summary) **2001k:37035**
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Graczyk, Jacek (*with* Świątek, Grzegorz) Smooth unimodal maps in the 1990s. (English summary) **2001b:37056**
Milnor, John W. Local connectivity of Julia sets: expository lectures. (English summary) **2001b:37073**
Nikolaev, Igor V. (*with* Zhuzhoma, E. V.) ★ Flows on 2-dimensional manifolds. **2001b:37065**
Pesin, Yakov B. To the memory of Radu Orendovici. (English summary) (*see* **2001f:37002**)
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37–03 Historical (must also be assigned at least one classification number from Section 01)

Arnol'd, V. I. Dynamical systems. (English summary) **2001m:37001**
Ghys, Étienne Les systèmes dynamiques holomorphes. (French summary) [Holomorphic dynamical systems] **2001b:37002**

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Arnol'd, V. I. From Hilbert's superposition problem to dynamical systems. (English summary) **2001h:01031**
(Bäcklund, Albert Victor) *see* **Rogers, Colin et al., 2001f:37121**
Batterson, Steve ★ Stephen Smale: the mathematician who broke the dimension barrier. (English summary) **2001g:01036**
Graczyk, Jacek (*with* Świątek, Grzegorz) Smooth unimodal maps in the 1990s. (English summary) **2001b:37056**
Heyerhoff, Markus The history of the early period of soliton theory. (English summary) (*see* **2001e:53001**)
Hubbard, John Hamal Preface. **2001g:37058**
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Kahane, Jean-Pierre Hadamard et la stabilité du système solaire. [Hadamard and the stability of the solar system] **2001c:70001**
Pelczar, Andrzej Tadeusz Ważewski—scientist and teacher. (Polish) **2001a:01058**
Rogers, Colin (*with* Schief, Wolfgang K.; Johnston, Mark E.) Bäcklund and his works: applications in soliton theory. **2001f:37121**
Schief, Wolfgang K. *see* **Rogers, Colin et al., 2001f:37121**
(Smale, Stephen) *see* **Batterson, Steve, 2001g:01036**
Smorodinsky, Meir Information, entropy and Bernoulli systems. **2001j:37013**
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Biography:
Smale, Stephen *see* **Batterson, Steve, 2001g:01036**
Ważewski, Tadeusz *see* **Pelczar, Andrzej, 2001a:01058**

37–04 Explicit machine computation and programs (not the theory of computation or programming)

Meshkov, A. G. Computer package for investigation of the complete integrability. (English summary) **2001c:37001**

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Álvarez, Gonzalo *see* **Briggs, Keith M., 2001d:37053**
Briggs, Keith M. (*with* Álvarez, Gonzalo) Scaling in a map of the two-torus. (English summary) **2001d:37053**
Choe, Won Gyu (*with* Guckenheimer, John) Using dynamical system tools in Matlab. (*see* **2001b:65008**)
Edneral, V. F. About normal form method. (English summary) **2001e:34071**
El Kahoui, M'Hammed (*with* Weber, Andreas Günter) Deciding Hopf bifurcations by quantifier elimination in a software-component architecture. (English summary) **2001e:37063**
Gatermann, Karin ★ Computer algebra methods for equivariant dynamical systems. **2001k:37040**
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Lynch, Stephen ★ Dynamical systems with applications using MAPLE. (English summary) **2001k:37001**
Weber, Andreas Günter *see* **El Kahoui, M'Hammed, 2001e:37063**

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37–06 Proceedings, conferences, collections, etc.

(Bishop, Alan R.) *see* **Nonlinear evolution equations & dynamical systems: NEEDS '94, 2001e:37002**
(Blanchard, F.) *see* **Topics in symbolic dynamics and applications, 2001e:37003**
(Boiti, M.) *see* **Proceedings: Workshop on Nonlinearity, Integrability and All That: Twenty Years after NEEDS '79, 2001c:37002**
(Braden, H. W.) *see* **Integrability: the Seiberg-Witten and Whitham equations, 2001i:37003**
Cerveau, Dominique (*with* Ghys, Étienne; Sibony, Nessim; Yoccoz, Jean-Christophe) ★ Dynamique et géométrie complexes. (French) [Complex dynamics and geometry] **2001a:37002**

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(Foreman, Matthew) *see* Descriptive set theory and dynamical systems, 2001b:37004
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(Harnad, J.) *see* Integrable systems: from classical to quantum, 2001e:37001
(Holm, Darryl D.) *see* Nonlinear evolution equations & dynamical systems: NEEDS '94, 2001e:37002
(Hubert, Pascal) *see* Dynamical systems, 2001f:37002
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(Lemańczyk, Mariusz) *see* Dedicated to the memory of Anzelm Iwanik
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School:
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37Axx Ergodic theory [see also 28Dxx]

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37A05 Measure-preserving transformations

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37A10 One-parameter continuous families of measure-preserving transformations

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37A35 Entropy and other invariants, isomorphism, classification

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37A40 Nonsingular (and infinite-measure preserving) transformations

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37A45 Relations with number theory and harmonic analysis [see also 11Kxx]

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37A50 Relations with probability theory and stochastic processes [see also 60Fxx and 60G10]

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37A55 Relations with the theory of C^*-algebras [See mainly 46L55]

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37A60 Dynamical systems in statistical mechanics [see also 82Cxx]

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de Carvalho, Maria Commuting expanding dynamics. (English summary) **2001d:37031**
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37Bxx Topological dynamics [see also 54H20]

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(Lemańczyk, Mariusz) *see* **Dedicated to the memory of Anzelm Iwanik**

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37B05 Transformations and group actions with special properties (minimality, distality, proximality, etc.)

Akashi, Shigeo Embedding of expansive dynamical systems into symbolic dynamical systems. (English summary) **2001k:37015**
Alpern, Steve (*with* Prasad, Vidhu S.) Maximally chaotic homeomorphisms of sigma-compact manifolds. (English summary) **2001j:37018**
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Font, Juan J. (*with* Sanchis, Manuel) Metrizable extensions of dynamical systems from function algebras. (English summary) **2001g:37007**
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Madden, K. M. (*with* Markley, N. G.; Sears, M.) The structural stability of topological cocycles. (English summary) **2001a:37015**
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Polulyakh, E. A. On the embedding of total spaces of fiber bundles over a circle with the Cantor set as a fiber into two-dimensional manifolds. (Russian. English, Russian and Ukrainian summaries) **2001h:37019**
Prasad, Vidhu S. *see* **Alpern, Steve, 2001j:37018**
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Weiss, Benjamin Sofic groups and dynamical systems. (English summary) **2001j:37022**
— *see also* **Glasner, Eli, 2001j:37021**
Worth, Fred Generalized shift homeomorphism. (English summary) **2001m:37021**
Zhong, Wen Yong *see* **Liu, Xiao Bin, 2001f:37010**

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Foreman, Matthew A descriptive view of ergodic theory. **2001h:37003**
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Gjerde, Richard (*with* Johansen, Ørjan) C^*-algebras associated to non-homogeneous minimal systems and their K-theory. **2001e:46104**
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Nasu, Masakazu Endomorphisms of expansive systems on compact metric spaces and the pseudo-orbit tracing property. (English summary) **2001b:54049**
Pestov, Vladimir Amenable representations and dynamics of the unit sphere in an infinite-dimensional Hilbert space. (English summary) **2001m:22012**
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Afraimovich, Valentin S. (*with* Maass, Alejandro; Urías, Jesús) Symbolic dynamics for sticky sets in Hamiltonian systems. (English summary) **2001j:37023**
Aso, Hiroshi Conjugacy of $\mathbb{Z}^2$-subshifts and textile systems. (English summary) **2001a:37016**
Badoian, L. (*with* Wagoner, J. B.) Simple connectivity of the Markov partition space. (English summary) **2001c:37012**
Béal, Marie-Pierre (*with* Mignosi, Filippo; Restivo, A.; Sciortino, M.) Forbidden words in symbolic dynamics. (English summary) **2001i:37020**
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Belov, A. Ya. (*with* Kondakov, G. V.) Inverse problems of symbolic dynamics. (Russian. English and Russian summaries) **2001g:37008**
Berthé, Valérie Sequences of low complexity: automatic and Sturmian sequences. (English summary) **2001e:37012**
Boyle, Mike Algebraic aspects of symbolic dynamics. (English summary) **2001e:37013**
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Duan, Jinqiao *see* **Fu, Xin-Chu et al., 2001b:37011**
Durand, Fabien Linearly recurrent subshifts have a finite number of non-periodic subshift factors. (English summary) **2001m:37022**
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Galatolo, Stefano Orbit complexity by computable structures. (English summary) **2001h:37021**
Gan, Shaobo Sturmian sequences and the lexicographic world. (English summary) **2001m:37023**
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Host, Bernard Substitution subshifts and Bratteli diagrams. **2001e:37014**
Jia, Bao Guo The Hausdorff dimension function of aperiodic fixed point for primitive substitutions. (Chinese. Chinese summary) **2001i:37021**
Kameyama, Atsushi Distances on topological self-similar sets and the kneading determinants. (English summary) **2001m:37024**
Kim, Ki Hang (*with* Roush, Fred W.) The Williams conjecture is false for irreducible subshifts. (English summary) **2001b:37012**
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Park, Seung Seol Bratteli diagram isomorphic to Chacon homeomorphism. (English summary) **2001h:37022**

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Goetz, Arek A self-similar example of a piecewise isometric attractor. (English summary) **2001k:37060**

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37B35 Gradient-like and recurrent behavior; isolated (locally-maximal) invariant sets

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37B40 Topological entropy

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37B50 Multi-dimensional shifts of finite type, tiling dynamics

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37Cxx Smooth dynamical systems: general theory [see also 34Cxx, 34Dxx]

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37C15 Topological and differentiable equivalence, conjugacy, invariants, moduli, classification

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37C20 Generic properties, structural stability

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37C25 Fixed points, periodic points, fixed-point index theory

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37C27 Periodic orbits of vector fields and flows

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Giraldo, Luis (*with* González-Gascón, Francisco) New proof and generalizations of the Demidowitsch-Schneider criterion. (English summary) **2001g:37026**
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Cingolani, Silvia (*with* Lazzo, Monica) Multiple periodic solutions for autonomous conservative systems. (English summary) **2001j:34049**
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37C29 Homoclinic and heteroclinic orbits

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Huang, Wenzhang Monotonicity of heteroclinic orbits and spectral properties of variational equations for delay differential equations. **2001j:37043**
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Pujals, Enrique R. (*with* Sambarino, Martín) On homoclinic tangencies, hyperbolicity, creation of homoclinic orbits and variation of entropy. (English summary) **2001j:37044**
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37C30 Zeta functions, (Ruelle-Frobenius) transfer operators, and other functional analytic techniques in dynamical systems

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37C35 Orbit growth

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Otal, Jean-Pierre *see* **Dal'Bo, Françoise et al., 2001g:37040**
Peigné, Marc *see* **Babillot, Martine, 2001b:37043** *and* **Dal'Bo, Françoise et al., 2001g:37040**
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37C40 Smooth ergodic theory, invariant measures [see also 37Dxx]

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Saussol, Benoît Absolutely continuous invariant measures for multidimensional expanding maps. (English summary) **2001e:37037**
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37C45 Dimension theory of dynamical systems

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Solomyak, Boris *see* **Peres, Yuval et al., 2001e:28014; 2001g:28017** *and* **Simon, Károly, 2001k:37041**
Steinberger, Thomas Hausdorff dimension of attractors for two dimensional Lorenz transformations. (English summary) **2001g:37054**
Tempel'man, A. A. *see* **Gurevich, B. M., 2001h:37018**
Urbański, Mariusz Hausdorff measures versus equilibrium states of conformal infinite iterated function systems. (English summary) **2001k:28012**
— *see also* **Mauldin, R. Daniel, 2001g:28016**
Wang, Hong Yong (*with* Chen, Gang[3]) New Bush-type fractal surfaces and their dimensions. (Chinese. English and Chinese summaries)
Yu, Zu-Guo *see* **Liang, Jinrong et al., 2001e:28012**
Zheng, Wei Xing *see* **Jing, Ning, 2001e:37047**

37C50 Approximate trajectories (pseudotrajectories, shadowing, etc.)

Begun, E. N. (*with* Pilyugin, Sergei Yu.) Uniform Lipschitzian tracing of pseudo-orbits. (English summary)
Kulczycki, Marcin Uniform pseudo-orbit tracing property for homeomorphisms and continuous mappings. (English summary) **2001m:37048**
Ombach, Jerzy Semi-hyperbolicity and inverse shadowing. (English summary) **2001k:37038**
Palmer, Kenneth J. *see* **Stoffer, Daniel, 2001g:37033**
Pilyugin, Sergei Yu. ★ Shadowing in dynamical systems. **2001b:37030**
— *see also* **Begun, E. N.**
Plamenevskaya, O. B. Weak shadowing in two-dimensional diffeomorphisms. (English summary) **2001h:37053**
Sakai, Kazuhiro Diffeomorphisms with the average-shadowing property on two-dimensional closed manifolds. (English summary) **2001j:37052**
Stoffer, Daniel (*with* Palmer, Kenneth J.) Rigorous verification of chaotic behaviour of maps using validated shadowing. (English summary) **2001g:37033**

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Bielecki, Andrzej Topological conjugacy of cascades generated by gradient flows on the two-dimensional sphere. (English summary) **2001j:37057**
Bonatti, Christian (*with* Díaz, Lorenzo J.; Turcat, Gaël) Pas de "shadowing lemma" pour des dynamiques partiellement hyperboliques. (English and French summaries) [There is no shadowing lemma for partially hyperbolic dynamics] **2001d:37033**
Diamond, Phil (*with* Kloeden, Peter E.; Krasnosel'skiĭ, M. A.; Pokrovskiĭ, A. V.) Chaotic dynamics in nonsmooth perturbations of bishadowing systems. (English summary) **2001f:37040**
Díaz, Lorenzo J. *see* **Bonatti, Christian et al., 2001d:37033**
Kloeden, Peter E. *see* **Diamond, Phil et al., 2001f:37040**
Krasnosel'skiĭ, M. A. *see* **Diamond, Phil et al., 2001f:37040**
Li, Kai Tai *see* **Li, Ming Jun, 2001h:37033**

Li, Ming Jun (*with* Li, Kai Tai) The sequence pseudo-orbit tracing property and topological transitivity. (Chinese. English and Chinese summaries) **2001h:37033**
Lu, Zhan Hui (*with* Xing, Mian) Chain recurrent sets with a shadowing property of expansive homeomorphisms. (Chinese. English and Chinese summaries) **2001h:37030**
— (*with* Wang, Fu Hai; Zheng, Hong Wen) Basic sets of expansive flows with a shadowing property. (Chinese. English and Chinese summaries)
Norton, Douglas E. ϵ-pseudo-orbits and isolated invariant sets. (English summary) **2001k:37031**
Osipenko, G. S. Spectrum of a dynamical system and applied symbolic dynamics. (English summary) **2001m:37030**
Pilyugin, Sergei Yu. Shadowing in the Chafee-Infante problem. (Russian. Russian summary) **2001m:37171**
Plamenevskaya, O. B. Pseudo-orbit tracing property and limit shadowing property on a circle. (English summary) **2001f:37046**
Pokrovskiĭ, A. V. *see* **Diamond, Phil et al., 2001f:37040**
Turcat, Gaël *see* **Bonatti, Christian et al., 2001d:37033**
Wang, Fu Hai *see* **Lu, Zhan Hui et al.**
Xing, Mian *see* **Lu, Zhan Hui, 2001h:37030**
Zheng, Hong Wen *see* **Lu, Zhan Hui et al.**

37C55 Periodic and quasiperiodic flows and diffeomorphisms

Items with secondary classifications in 37C55

Cong, Fu Zhong (*with* Küpper, Tassilo; Li, Yong[6]; You, Jian Gong) KAM-type theorem on resonant surfaces for nearly integrable Hamiltonian systems. (English summary) **2001b:37086**
Küpper, Tassilo *see* **Cong, Fu Zhong et al., 2001b:37086**
Lee, Jong-Eao *see* **Yu, Chi-Jer, 2001m:37177**
Li, Yong[6] *see* **Cong, Fu Zhong et al., 2001b:37086**
Naito, Koichiro Correlation dimensions of quasi-periodic orbits with frequencies given by Roth numbers. (English summary) **2001e:37038**
— Correlation dimensions of quasi-periodic orbits with frequencies given by Roth numbers. (English summary) **2001k:11153**
— Correlation dimensions of quasi-periodic orbits with frequencies given by quasi Roth numbers. (English summary) **2001h:37051**
Sevryuk, M. B. On the convergence of coordinate transformations in the KAM procedure. (English summary) **2001j:37108**
You, Jian Gong *see* **Cong, Fu Zhong et al., 2001b:37086**
Yu, Chi-Jer (*with* Lee, Jong-Eao) An algorithm to approach invariant curves. (English summary) **2001m:37177**
Zharnitsky, Vadim Invariant curve theorem for quasiperiodic twist mappings and stability of motion in the Fermi-Ulam problem. (English summary) **2001h:37087**

37C60 Nonautonomous smooth dynamical systems [see also 37B55]

Items with secondary classifications in 37C60

Chicone, Carmen (*with* Latushkin, Yu. D.) ★ Evolution semigroups in dynamical systems and differential equations. (English summary) **2001e:47068**
Kloeden, Peter E. Spatial discretization of pullback attractors of nonautonomous difference equations. (English summary) **2001m:39021**
Latushkin, Yu. D. *see* **Chicone, Carmen, 2001e:47068**
Zhang, Chuan Yi Ergodicity and its applications. I. Basic properties. (English and Chinese summaries) **2001i:34078**
— Ergodicity and its applications. II. Averaging method of some dynamical systems. (English and Chinese summaries) **2001i:34079**

37C65 Monotone flows

(Hirsch, Morris W.) *see* **Mierczyński, Janusz, 2001d:37024**
Mierczyński, Janusz A remark on M. W. Hirsch's paper: "Chain transitive sets for smooth strongly monotone dynamical systems" [Dynam. Contin. Discrete Impuls. Systems **5** (1999), no. 1-4, 529–543; MR 2000e:37017]. (English summary) **2001d:37024**

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Huang, Xian Hua Stable periodic solutions of a class of delay differential equations via monotone dynamical system methods. (English summary) **2001e:34137**
Ortega, Rafael (*with* Sánchez, Luis Ángel) Abstract competitive systems and orbital stability in $\mathbb{R}^3$. (English summary) **2001a:34075**
Sánchez, Luis Ángel *see* **Ortega, Rafael, 2001a:34075**

37C70 Attractors and repellers, topological structure

Bobylev, N. A. *see* **Emel'yanov, Stanislav Vasil'evich et al., 2001e:37039**
Cao, Yong Luo (*with* Mao, Jian Min) The non-wandering set of some Hénon maps. (English summary) **2001c:37023**
Emel'yanov, Stanislav Vasil'evich (*with* Korovin, S. K.; Bobylev, N. A.) Attractors of control systems. (Russian) **2001e:37039**
Giacomini, Hector J. *see* **Neukirch, S., 2001j:37053**
Korovin, S. K. *see* **Emel'yanov, Stanislav Vasil'evich et al., 2001e:37039**
Mao, Jian Min *see* **Cao, Yong Luo, 2001c:37023**
Neukirch, S. (*with* Giacomini, Hector J.) Shape of attractors for three-dimensional dissipative dynamical systems. (English summary) **2001j:37053**
Palis, Jacob A global view of dynamics and a conjecture on the denseness of finitude of attractors. (English and French summaries) **2001d:37025**

Items with secondary classifications in 37C70

Afraimovich, Valentin S. (*with* Schmeling, Jörg; Ugalde, Edgardo; Urías, Jesús) Spectra of dimensions for Poincaré recurrences. (English summary) **2001h:37050**
Agliari, Anna (*with* Gardini, Laura; Gatti, Domenico Delli; Gallegati, Mauro) Global dynamics in a non-linear model of the equity ratio. (English summary) **2001a:91047**
Ahmad, Khader (*with* Hamoui, Adnan) Attraction relative to a subspace and to the whole space. (English summary) **2001e:37018**
Alberto, Luis. F. C. *see* **Rodrigues, H. M. et al., 2001m:34118**
Benedicks, Michael (*with* Young, Lai-Sang) Markov extensions and decay of correlations for certain Hénon maps. (English and French summaries) **2001g:37030**
Bretas, Newton G. *see* **Rodrigues, H. M. et al., 2001m:34118**
Buzzard, Gregery T. Extensions of Hénon maps to the closed 4-ball. (English summary) **2001i:37066**
Dobrynskiĭ, V. A. On the structure of the set of nonwandering points of a pair of coupled quadratic mappings. (Russian. English and Ukrainian summaries) **2001a:37052**
Dorfman, J. R. ★ An introduction to chaos in nonequilibrium statistical mechanics. (English summary) **2001a:82001**
Druzhinina, O. V. (*with* Shestakov, Aleksandr Andreevich) On the structure of an attractor that is stable in the sense of Lyapunov. (Russian) **2001c:37015**
Fornæss, John Erik (*with* Weickert, Brendan) Attractors in $\mathbb{P}^2$. (English summary) **2001e:32025**
— (*with* Weickert, Brendan) Random iteration in $\mathbb{P}^k$. (English summary) **2001j:32016**
Gallegati, Mauro *see* **Agliari, Anna et al., 2001a:91047**
Gardini, Laura *see* **Agliari, Anna et al., 2001a:91047**
Gatti, Domenico Delli *see* **Agliari, Anna et al., 2001a:91047**
Grines, V. Z. (*with* Plykin, R. V.) Topological classification of amply situated attractors of A-diffeomorphisms of surfaces. **2001h:37042**
Hamoui, Adnan *see* **Ahmad, Khader, 2001e:37018**
(Hirsch, Morris W.) *see* **Mierczyński, Janusz, 2001d:37024**
Homburg, Ale Jan Piecewise smooth interval maps with non-vanishing derivative. (English summary) **2001d:37042**
Kartynnik, A. V. (*with* Linkevich, A. D.) Global attractors, attracting regions and regions of visiting for dynamical systems. (English summary) **2001e:34100**
Kloeden, Peter E. A Lyapunov function for pullback attractors of nonautonomous differential equations. (English summary) **2001k:37020**
Linkevich, A. D. *see* **Kartynnik, A. V., 2001e:34100**
Liu, Pei-Dong (*with* Zheng, Hong Wen) Stochastic stability of generalized SRB measures of Axiom A basic sets. (English summary) **2001g:37084**
Mierczyński, Janusz A remark on M. W. Hirsch's paper: "Chain transitive sets for smooth strongly monotone dynamical systems" [Dynam. Contin. Discrete Impuls. Systems **5** (1999), no. 1-4, 529–543; MR 2000e:37017]. (English summary) **2001d:37024**
Plykin, R. V. *see* **Grines, V. Z., 2001h:37042**
Pujals, Enrique R. (*with* Sambarino, Martín) Homoclinic tangencies and hyperbolicity for surface diffeomorphisms. (English summary) **2001m:37057**
Puu, Tönu ★ Attractors, bifurcations, and chaos. (English summary) **2001g:91073**
Rodrigues, H. M. (*with* Alberto, Luis. F. C.; Bretas, Newton G.) Uniform invariance principle and synchronization. Robustness with respect to parameter variation. (English summary) **2001m:34118**
Sambarino, Martín *see* **Pujals, Enrique R., 2001m:37057**
Schmeling, Jörg *see* **Afraimovich, Valentin S. et al., 2001h:37050**
Shestakov, Aleksandr Andreevich *see* **Druzhinina, O. V., 2001c:37015**
Steinberger, Thomas Hausdorff dimension of attractors for two dimensional Lorenz transformations. (English summary) **2001g:37054**
Swanson, Richard (*with* Volkmer, Hans) Invariants of weak equivalence in primitive matrices. (English summary) **2001h:37034**
Ugalde, Edgardo *see* **Afraimovich, Valentin S. et al., 2001h:37050**
Urías, Jesús *see* **Afraimovich, Valentin S. et al., 2001h:37050**
Volkmer, Hans *see* **Swanson, Richard, 2001h:37034**
Walther, H.-O. The singularities of an attractor of a delay differential equation. (English summary) **2001j:34103**
Weickert, Brendan *see* **Fornæss, John Erik, 2001e:32025** *and* **2001j:32016**
Yang, Xiao Song Practical stability in dynamical systems. (English summary) **2001e:34099**
Young, Lai-Sang *see* **Benedicks, Michael, 2001g:37030**
Zheng, Hong Wen *see* **Liu, Pei-Dong, 2001g:37084**
Zhirov, A. Yu. Complete combinatorial invariants for conjugacy of hyperbolic attractors of diffeomorphisms of surfaces. (English summary) **2001g:37051**

37C75 Stability theory

Chiu, Chuang-Hsiung (*with* Lin, Wen-Wei; Peng, Chen-Chang) Asymptotic synchronization in lattices of coupled nonidentical Lorenz equations. (English summary) **2001k:37039**
Ikeda, Hiroshi[2] Inverse limit stability for semiflows. (English summary) **2001f:37027**
Lin, Wen-Wei *see* **Chiu, Chuang-Hsiung et al., 2001k:37039**
Peng, Chen-Chang *see* **Chiu, Chuang-Hsiung et al., 2001k:37039**
Toyoshiba, Hiroyoshi A property of vector fields without singularity in $\mathfrak{X}^1(M)$. (English summary) **2001m:37049**
Vilela Mendes, Rui Multistability in dynamical systems. (English summary) **2001i:37044**
Zhukov, V. P. Divergence conditions for the asymptotic stability of second-order nonlinear dynamical systems. (Russian. Russian summary) **2001j:37054**

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Ambroladze, Amiran (*with* Markström, Klas; Wallin, Hans) Stability versus hyperbolicity in dynamical and iterated function systems. (English summary) **2001h:26005**
Chicone, Carmen (*with* Latushkin, Yu. D.) ★ Evolution semigroups in dynamical systems and differential equations. (English summary) **2001e:47068**
Fukui, Kazuhiko (*with* Mori, Atsuhide) Codimension two compact Hausdorff foliations by hyperbolic surfaces are not stable. **2001m:57052**
Ge, Xiang-Yu Proof of the geometric diagram of Liapunov's theorem. (English summary) **2001h:34070**
Hu, Pei Chu (*with* Yang, Chung-Chun) Fatou-Julia theory in differentiable dynamics. **2001g:37066**

Kennison, John F. Solution manifolds for systems of differential equations. (English summary) **2001g:18005**
Kulczycki, Marcin Uniform pseudo-orbit tracing property for homeomorphisms and continuous mappings. (English summary) **2001m:37048**
Latushkin, Yu. D. *see* **Chicone, Carmen, 2001e:47068**
Markström, Klas *see* **Ambroladze, Amiran et al., 2001h:26005**
Mazko, A. G. ★ Локализация спектра и устойчивость динамических систем. (Russian. English and Russian summaries) [Localization of the spectrum and stability of dynamical systems] **2001m:37041**
Mori, Atsuhide *see* **Fukui, Kazuhiko, 2001m:57052**
Palis, Jacob A global view of dynamics and a conjecture on the denseness of finitude of attractors. (English and French summaries) **2001d:37025**
Shamolin, M. V. A new family of phase portraits in the three-dimensional dynamics of a rigid body interacting with a medium. (Russian) **2001k:70006**
Wallin, Hans *see* **Ambroladze, Amiran et al., 2001h:26005**
Yang, Chung-Chun *see* **Hu, Pei Chu, 2001g:37066**

37C80 Symmetries, equivariant dynamical systems

Buono, Pietro-Luciano (*with* Golubitsky, Martin; Palacios, Antonio) Heteroclinic cycles in rings of coupled cells. (English summary) **2001m:37050**
Gatermann, Karin ★ Computer algebra methods for equivariant dynamical systems. **2001k:37040**
Golubitsky, Martin *see* **Buono, Pietro-Luciano et al., 2001m:37050**
Palacios, Antonio *see* **Buono, Pietro-Luciano et al., 2001m:37050**
Zajtz, Andrzej Global version of a Sternberg linearization theorem. (English summary) **2001m:37051**

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Lecture Notes in Mathematics *see* **Gatermann, Karin, 2001k:37040**

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Huang, De-Bin (*with* Zhao, Xiao Hua) The vector fields admitting one-parameter spatial symmetry group and their reduction. (Chinese. English and Chinese summaries) **2001f:34064**
Lamb, Jeroen S. W. (*with* Melbourne, Ian) Bifurcation from discrete rotating waves. (English summary) **2001h:37108**
— (*with* Wulff, Claudia) Pinning and locking of discrete waves. (English summary) **2001g:37082**
Melbourne, Ian *see* **Lamb, Jeroen S. W., 2001h:37108**
Wood, David Andrew A cautionary tale of coupling cells with internal symmetries. (English summary) **2001m:37106**
Wulff, Claudia *see* **Lamb, Jeroen S. W., 2001g:37082**
Zeng, Chongchun Persistence of invariant manifolds for perturbations of semiflows with symmetry. (English summary) **2001i:37047**
Zhao, Xiao Hua *see* **Huang, De-Bin, 2001f:34064**

37C85 Dynamics of group actions other than Z and R, and foliations [See mainly 22Fxx, and also 57R30, 57Sxx]

Arnoux, Pierre (*with* Hubert, Pascal) Fractions continues sur les surfaces de Veech. (English summary) [Continued fractions on Veech surfaces] **2001h:37054**
Benveniste, E. J. Rigidity of isometric lattice actions on compact Riemannian manifolds. **2001j:37055**
Bhattacharya, Siddhartha Topological conjugacy of automorphism flows on compact Lie groups. (English summary) **2001d:37026**
Dal'Bo, Françoise Topologie du feuilletage fortement stable. (English and French summaries) [Topology of a strongly stable foliation] **2001i:37045**
Gorbuzov, V. N. (*with* Tyshchenko, V. Yu.) On the embeddability of foliations of the Riccati equations. (English, Russian and Moldavian summaries) **2001f:37028**
Gusmão, Paulo Feuilletages mesurés et pseudogroupes d'isométries du cercle. (English summary) [Measurable foliations and pseudogroups of isometries of the circle] **2001j:37056**
Hubert, Pascal *see* **Arnoux, Pierre, 2001h:37054**
Khruzin, A. N. On the classification of oriented foliations with singularities on the surfaces. II. (Russian) **2001f:37029**
Kleinbock, Dmitry (*with* Margulis, Grigorii A.) Logarithm laws for flows on homogeneous spaces. (English summary) **2001i:37046**
Krikorian, Raphaël Réductibilité des systèmes produits-croisés à valeurs dans des groupes compacts. (English and French summaries) [Reducibility of compact-group-valued skew-product systems] **2001f:37030**
Margulis, Grigorii A. *see* **Kleinbock, Dmitry, 2001i:37046**
Sotomayor, Jorge (*with* Zhitomirskii, Michail) On pairs of foliations defined by vector fields in the plane. (English summary) **2001c:37024**
Tyshchenko, V. Yu. *see* **Gorbuzov, V. N., 2001f:37028**
Zhitomirskii, Michail *see* **Sotomayor, Jorge, 2001c:37024**

Items with secondary classifications in 37C85

Aranson, S. Kh. (*with* Medvedev, Vladislav Sergeevich; Zhuzhoma, E. V.) Collapse and continuity of geodesic frameworks of surface foliations. (English summary) **2001f:37051**
Badura, Marek Prescribing growth type of complete Riemannian manifolds of bounded geometry. (English summary) **2001m:53052**
Bonahon, Francis Geodesic laminations on surfaces. **2001m:57023**
Calegari, Danny The geometry of R-covered foliations. (English summary) **2001k:57016**
de Carvalho, Maria Commuting expanding dynamics. (English summary) **2001d:37031**
Dani, S. G. On values of linear and quadratic forms at integral points. **2001f:11108**
Feres, Renato ★ Dynamical systems and semisimple groups: an introduction. (English summary) **2001d:22001**
— (*with* Lampe, P.) Cartan geometries and dynamics. (English summary) **2001i:53059**
Fukui, Kazuhiko (*with* Mori, Atsuhide) Codimension two compact Hausdorff foliations by hyperbolic surfaces are not stable. **2001m:57052**
Giroux, Emmanuel Structures de contact en dimension trois et bifurcations des feuilletages de surfaces. [Contact structures in dimension three and bifurcations of surface foliations] **2001i:53147**
Goetze, Edward R. (*with* Spatzier, Ralf J.) Smooth classification of Cartan actions of higher rank semisimple Lie groups and their lattices. (English summary) **2001c:37029**
Katok, Anatole B. (*with* Niţică, Viorel; Török, Andrei) Non-abelian cohomology of abelian Anosov actions. (English summary) **2001f:37034**
Kleinbock, Dmitry Badly approximable systems of affine forms. (English summary) **2001b:11064**
Kruglikov, B. S. Exact classification of divergence-free nondivergent vector fields on surfaces of small genus. (Russian. Russian summary) **2001b:37064**
Labourie, François Un lemme de Morse pour les surfaces convexes. [A Morse lemma for convex surfaces] **2001h:37059**
Lampe, P. *see* **Feres, Renato, 2001i:53059**
Margulis, Grigorii A. Problems and conjectures in rigidity theory. **2001d:22008**
Marzougui, Habib Flows with infinite singularities on closed two-manifolds. (English summary) **2001h:57032**
Medvedev, Vladislav Sergeevich *see* **Aranson, S. Kh. et al., 2001f:37051**
Mori, Atsuhide *see* **Fukui, Kazuhiko, 2001m:57052**
Mormul, Piotr Goursat flags: classification of codimension-one singularities. (English summary) **2001f:58081**
Niţică, Viorel *see* **Katok, Anatole B. et al., 2001f:37034**
Noda, Takeo Projectively Anosov flows with differentiable (un)stable foliations. (English and French summaries) **2001m:37055**
Oliveira, R. D. S. (*with* Tari, F.) On pairs of differential 1-forms in the plane. (English summary) **2001d:37017**
Ramsay, Arlan B. Polish groupoids. **2001e:22003**
Smyth, Brian (*with* Xavier, Frederico) Eigenvalue estimates and the index of Hessian fields. (English summary) **2001m:53042**
Sotomayor, Jorge Lines of curvature and an integral form of Mainardi-Codazzi equations. (English summary) **2001b:53006**
Spatzier, Ralf J. *see* **Goetze, Edward R., 2001c:37029**
Starkov, A. N. ★ Динамические системы на однородных пространствах. (Russian. Russian summary) [Dynamical systems on homogeneous spaces] **2001m:37013a**
— ★ Dynamical systems on homogeneous spaces. (English summary) **2001m:37013b**
Tari, F. *see* **Oliveira, R. D. S., 2001d:37017**
Török, Andrei *see* **Katok, Anatole B. et al., 2001f:37034**
Xavier, Frederico *see* **Smyth, Brian, 2001m:53042**
Zeghib, Abdelghani Isometry groups and geodesic foliations of Lorentz manifolds. I. Foundations of Lorentz dynamics. (English summary) **2001g:53059**
— On Gromov's theory of rigid transformation groups: a dual approach. (English summary) **2001f:53084**
Zhuzhoma, E. V. *see* **Aranson, S. Kh. et al., 2001f:37051**
Zorich, Anton How do the leaves of a closed 1-form wind around a surface? (English summary) **2001c:57019**

37C99 None of the above, but in this section

Kaneko, Kunihiko *see* **Ouchi, Noriyuki Bob, 2001a:37033**
Losson, Jérôme (*with* Mackey, Michael C.) Thermodynamic properties of coupled map lattices. (English summary) **2001e:37040**
Mackey, Michael C. *see* **Losson, Jérôme, 2001e:37040**
Mees, A. I. *see* **Rapp, P. E. et al., 2001d:37027**
Ouchi, Noriyuki Bob (*with* Kaneko, Kunihiko) Coupled maps with local and global interactions. (English summary) **2001a:37033**
Paternain, Gabriel P. Topological pressure for geodesic flows. (English and French summaries) **2001e:37041**
Rapp, P. E. (*with* Schmah, T. I.; Mees, A. I.) Models of knowing and the investigation of dynamical systems. (English summary) **2001d:37027**
Schmah, T. I. *see* **Rapp, P. E. et al., 2001d:37027**

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Baroni, L. (*with* Livi, R.; Torcini, A.) Noise-driven synchronization in coupled map lattices. (English summary) (*see* **2001f:37002**)
Butenina, N. N. The structure of the boundary curve for planar controllability domains. (English summary) **2001m:37178**
Cencini, M. (*with* Falcioni, Massimo; Vergni, D.; Vulpiani, A.) Complex behavior in extended systems: beyond the Lyapunov exponent. (English summary) (*see* **2001f:37002**)
Chua, Leon O. CNN: a vision of complexity. (English summary) **2001a:34082**
Davidchack, Ruslan (*with* Lai, Ying-Cheng) Characterization of transition to chaos with multiple positive Lyapunov exponents by unstable periodic orbits. (English summary) **2001b:37046**
Dovbysh, S. A. Intersection of separatrices and the nonintegrability of multidimensional systems. (Russian) **2001d:37028**
Falcioni, Massimo *see* **Cencini, M. et al., (2001f:37002)**
Grammaticos, B. *see* **Lafortune, Stéphane et al., 2001e:39004**
Jan, Christophe Vitesse de convergence dans le TCL pour des chaines de Markov et certains processus associés à des systèmes dynamiques. (English and French summaries) [Rates of convergence in the CLT for Markov chains and some dynamical systems processes] **2001e:60043**
Kim, Inkang Rigidity of symmetric spaces. (English summary) **2001e:53045**
Kloeden, Peter E. (*with* Rubinov, Aleksandr M.) A generalization of the Perron-Frobenius theorem. **2001b:47108**
Lafortune, Stéphane (*with* Grammaticos, B.; Ramani, A.) Linearisable systems and the Gambier approach. (English summary) **2001e:39004**
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Majumdar, Mukul (*with* Mitra, Tapan) Dynamical systems: a tutorial. (*see* **2001b:91001**)

Mitra, Tapan *see* **Majumdar, Mukul, (2001b:91001)**
Propoi, A. I. On the construction of Lyapunov functions. (Russian) **2001g:34067**
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Rubinov, Aleksandr M. *see* **Kloeden, Peter E., 2001b:47108**
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37Dxx Dynamical systems with hyperbolic behavior

37D05 Hyperbolic orbits and sets

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Muldowney, James S. Stable hyperbolic limit cycles. (English summary) (*see* **2001d:92001**)
Nihoul, Jacques C. J. Turbulence et diversité: antidotes naturels au chaos. [Turbulence and diversity: natural antidotes to chaos]
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Simon, Károly (*with* Solomyak, Boris) Hausdorff dimension for horseshoes in $\mathbf{R}^3$. (English summary) **2001k:37041**
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Ikeda, Hiroshi[2] Inverse limit stability for semiflows. (English summary) **2001f:37027**
Kin, Eiko A suspension of an orientation preserving diffeomorphism of D^2 with a hyperbolic fixed point and universal template. (English summary) **2001g:37034**
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Ombach, Jerzy Semi-hyperbolicity and inverse shadowing. (English summary) **2001k:37038**
Pilyugin, Sergei Yu. ★ Shadowing in dynamical systems. **2001b:37030**
Risler, Emmanuel Linéarisation des perturbations holomorphes des rotations et applications. (English and French summaries) [Linearization of holomorphic perturbations of rotations, and applications] **2001k:37075**
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37D10 Invariant manifold theory

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— (*with* Lu, Kening; Zeng, Chongchun) Invariant foliations near normally hyperbolic invariant manifolds for semiflows. **2001b:37031**
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Chicone, Carmen (*with* Liu, Weishi) On the continuation of an invariant torus in a family with rapid oscillations. (English summary) **2001a:37034**
Chow, Shui-Nee (*with* Liu, Weishi; Yi, Yingfei) Center manifolds for smooth invariant manifolds. (English summary) **2001b:37032**
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Kin, Eiko A suspension of an orientation preserving diffeomorphism of D^2 with a hyperbolic fixed point and universal template. (English summary) **2001g:37034**
Liu, Weishi Invariant manifolds for a rapidly oscillatory perturbation problem. **2001d:37029**
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Zeng, Chongchun Persistence of invariant manifolds for perturbations of semiflows with symmetry. (English summary) **2001i:37047**
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Delshams, Amadeu (*with* Jorba, Àngel; Seara, Tere M.; Gelfreich, V. G.) Splitting of separatrices for (fast) quasiperiodic forcing. **2001b:37087**
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Fontich, Ernest (*with* Martín de la Torre, Pau) Arnold diffusion in perturbations of analytic integrable Hamiltonian systems. (English summary) **2001k:37096**
Gelfreich, V. G. *see* **Delshams, Amadeu et al., 2001b:37087**
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Josić, Krešimir Synchronization of chaotic systems and invariant manifolds. (English summary) **2001d:37036**
Kovačič, Gregor *see* **Camassa, Roberto et al., 2001b:34091**
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Molaei, M. R. (*with* Rezaei, G. R.) Some results on isodynamical systems. (English summary) **2001a:37022**
Rezaei, G. R. *see* **Molaei, M. R., 2001a:37022**
Romero, Neptalí (*with* Rovella, Alvaro; Vilamajor, F.) Invariant manifolds for delay endomorphisms. (English summary) **2001j:37040**
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37D15 Morse-Smale systems

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Campos, B. (*with* Martínez Alfaro, J.; Vindel, P.) Bifurcations of links of periodic orbits in non-singular Morse-Smale systems with a rotational symmetry on S^3. (English summary) **2001d:37030**
Girik, E. A. Isotopic equivalence of Morse-Smale polar vector fields on compact closed surfaces. (Russian) **2001c:37026**
Grines, V. Z. (*with* Medvedev, Vladislav Sergeevich) On the topological conjugacy of three-dimensional gradient-like diffeomorphisms with a trivially embedded set of separatrices of saddle fixed points. (Russian) **2001e:37042**
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Martínez Alfaro, J. *see* **Campos, B. et al., 2001d:37030**
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Poltavets, D. N. Cherry vector fields on the torus T^2. (English summary) **2001c:37027**
Prishlyak, A. O. Classification of three-dimensional gradient-like Morse-Smale dynamical systems. (Russian) **2001c:37028**
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Vlasenko, I. Yu. A complete topological invariant for Morse-Smale diffeomorphisms. I. A new invariant for Morse-Smale diffeomorphisms. (Russian) **2001b:37034**
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Cruz, R. N. (*with* de Rezende, K. A.) Gradient-like flows on high-dimensional manifolds. (English summary) **2001a:37026**
Fiedler, Bernold (*with* Rocha, Carlos) Realization of meander permutations by boundary value problems. (English summary) **2001b:37112**
Ji, Chuanshu (*with* Molinek, Donna) Asymptotic physical measures for nearly Brownian skew products. (English summary) **2001e:37011**
Molinek, Donna *see* **Ji, Chuanshu, 2001e:37011**
Orendovici, D. R. (*with* Pesin, Yakov B.) Chaos in traveling waves of lattice systems of unbounded media. (English summary) **2001f:37136**
Pazhitnov, Andrei Vladimirovich C^0-generic properties of boundary operators in the Novikov complex. **2001b:58021**
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Pujals, Enrique R. (*with* Sambarino, Martín) Homoclinic tangencies and hyperbolicity for surface diffeomorphisms. (English summary) **2001m:37057**
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Sullivan, Michael C. Visually building Smale flows in S^3. (English summary) **2001g:37025**
Toyoshiba, Hiroyoshi Nonsingular vector fields in $\mathfrak{X}^1(M^3)$ satisfy Axiom A and no cycle: a new proof of Liao's theorem. (English summary) **2001c:37021**

37D20 Uniformly hyperbolic systems (expanding, Anosov, Axiom A, etc.)

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Barreira, Luis (*with* Saussol, Benoît) Multifractal analysis of hyperbolic flows. (English summary) **2001j:37058**
Bonetto, F. (*with* Gentile, Guido; Mastropietro, Vieri) Electric fields on a surface of constant negative curvature. (English summary) **2001b:37036**
Buzzi, Jérôme Absolutely continuous S.R.B. measures for random Lasota-Yorke maps. (English summary) **2001a:37035**
de Carvalho, Maria Commuting expanding dynamics. (English summary) **2001d:37031**
Gentile, Guido *see* **Bonetto, F. et al., 2001b:37036**
Goetze, Edward R. (*with* Spatzier, Ralf J.) Smooth classification of Cartan actions of higher rank semisimple Lie groups and their lattices. (English summary) **2001c:37029**
Grácio, Clara (*with* Sousa Ramos, José) Symbolic dynamics and hyperbolic groups. (English summary) **2001a:37036**
Hayakawa, Eijirou On calculation of exponential growth rates. (English summary) (*see* **2001m:37002**)
He, Lian Fa (*with* Lu, Zhan Hui; Wang, Fu Hai) Birkhoff centers and Ω-stable conditions for flows. (English summary) **2001m:37054**
Jakobson, Michael (*with* Newhouse, Sheldon) Asymptotic measures for hyperbolic piecewise smooth mappings of a rectangle. (English and French summaries) **2001f:37033**
Katok, Anatole B. (*with* Niţică, Viorel; Török, Andrei) Non-abelian cohomology of abelian Anosov actions. (English summary) **2001f:37034**
Kaufmann, Z. (*with* Szépfalusy, P.) Transient chaos and critical states in generalized baker maps. (English summary) **2001j:37059**
Kin, Eiko On an example of a pseudo-Anosov homeomorphism of the disk not inducing all link types. (Japanese) (*see* **2001m:37002**)
Li, Weigu (*with* Zhang, Meirong) Existence of SRB measures for expanding maps with weak regularity. (English summary) **2001k:37042**
Lu, Zhan Hui *see* **He, Lian Fa et al., 2001m:37054**
Martins Rodrigues, Pedro (*with* Sousa Ramos, José) Topological and geometrical properties of isentropic torus automorphisms. (English summary) **2001b:37037**
Mastropietro, Vieri *see* **Bonetto, F. et al., 2001b:37036**
Newhouse, Sheldon *see* **Jakobson, Michael, 2001f:37033**
Niţică, Viorel *see* **Katok, Anatole B. et al., 2001f:37034**
Noda, Takeo Projectively Anosov flows with differentiable (un)stable foliations. (English and French summaries) **2001m:37055**
Pesin, Yakov B. Entropy and dimension families associated with equilibrium measures for hyperbolic dynamical systems. (English summary) **2001m:37056**
Pujals, Enrique R. (*with* Sambarino, Martín) Homoclinic tangencies and hyperbolicity for surface diffeomorphisms. (English summary) **2001m:37057**
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Shub, Michael (*with* Wilkinson, Amie) Stably ergodic approximation: two examples. (English summary) **2001d:37032**
Sousa Ramos, José *see* **Grácio, Clara, 2001a:37036** *and* **Martins Rodrigues, Pedro, 2001b:37037**
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Arnaud, Marie-Claude Difféomorphismes symplectiques de classe C^1 en dimension 4. (English and French summaries) [Symplectic C^1-diffeomorphisms of 4-dimensional manifolds] **2001m:37112**
Baladi, Viviane ★ Positive transfer operators and decay of correlations. (English summary) **2001k:37035**
Barbour, Andrew D. (*with* Gerrard, R. M.; Reinert, G.) Iterates of expanding maps. (English summary) **2001d:37040**
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Brinkmann, Peter An implementation of the Bestvina-Handel algorithm for surface homeomorphisms. (English summary) **2001e:57017**
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Cao, Yong Luo (*with* Wang, Lan Yu) Abundance of unimodal maps with dense critical orbit and prefixed critical orbit. (Chinese. English and Chinese summaries) **2001g:37043**
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Chernov, Nikolai I. (*with* Young, Lai-Sang) Decay of correlations for Lorentz gases and hard balls. (English summary) **2001k:37046**
Cheung, Wing Sum *see* **Osipenko, G. S., 2001a:37023**
Chicone, Carmen (*with* Latushkin, Yu. D.) ★ Evolution semigroups in dynamical systems and differential equations. (English summary) **2001e:47068**
Das, Tarun Kumar On generalizations of expansive homeomorphisms. (English summary) **2001b:37021**
Gallavotti, Giovanni New methods in nonequilibrium gases and fluids. (English summary)
— Nonequilibrium in statistical and fluid mechanics: ensembles and their equivalence. Entropy driven intermittency. (English summary) **2001g:82068**
Gerrard, R. M. *see* **Barbour, Andrew D. et al., 2001d:37040**
Giona, Massimiliano *see* **Cerbelli, Stefano et al., 2001i:37053**
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Li, Ming-Chia Stability of diffeomorphisms along one parameter. (English summary) **2001h:37043**
Liu, Pei-Dong (*with* Zheng, Hong Wen) Stochastic stability of generalized SRB measures of Axiom A basic sets. (English summary) **2001g:37084**
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Malfait, Wim Anosov diffeomorphisms on nilmanifolds of dimension at most six. (English summary) **2001h:20041**
Margulis, Grigoriĭ A. Problems and conjectures in rigidity theory. **2001d:22008**
Mori, Makoto Fredholm determinant for higher-dimensional piecewise linear transformations. **2001i:37042**
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Pollicott, Mark Z^d-covers of horosphere foliations. (English summary) **2001k:37049**
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Wang, Lan Yu *see* **Cao, Yong Luo, 2001g:37043**
Young, Lai-Sang *see* **Chernov, Nikolai I., 2001k:37046**
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Zhirov, A. Yu. Complete combinatorial invariants for conjugacy of hyperbolic attractors of diffeomorphisms of surfaces. (English summary) **2001g:37051**

37D25 Nonuniformly hyperbolic systems (Lyapunov exponents, Pesin theory, etc.)

Cogswell, Kurt Entropy and volume growth. (English summary) **2001j:37060**
Dechert, W. Davis (*with* Gençay, Ramazan) Is the largest Lyapunov exponent preserved in embedded dynamics? (English summary) **2001k:37043**
Denker, Manfred (*with* Gordin, Mikhail) Gibbs measures for fibred systems. (English summary) **2001j:37061**
Evans, Allan K. (*with* Nimmo, Stuart J.; London, Mark D.) Bispectra and phase correlations for chaotic dynamical systems. (English summary) (*see* **2001c:00022**)
Friedland, Shmuel Discrete Lyapunov exponents and Hausdorff dimension. (English summary) **2001b:37039**
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Gordin, Mikhail *see* **Denker, Manfred, 2001j:37061**
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Luzzatto, Stefano (*with* Viana, Marcelo) Positive Lyapunov exponents for Lorenz-like families with criticalities. (English and French summaries) **2001f:37036**
Morales, C. A. (*with* Pacifico, M. J.; Pujals, Enrique R.) Strange attractors across the boundary of hyperbolic systems. (English summary) **2001g:37036**
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Pacifico, M. J. *see* **Morales, C. A. et al., 2001g:37036**
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Shub, Michael (*with* Wilkinson, Amie) Pathological foliations and removable zero exponents. **2001c:37030**
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Wilkinson, Amie *see* **Shub, Michael, 2001c:37030**
Wojtkowski, Maciej P. W-flows on Weyl manifolds and Gaussian thermostats. (English summary) **2001k:37044**
Young, Lai-Sang Recurrence times and rates of mixing. (English summary) **2001j:37062**

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Blanchard, Philippe (*with* Cessac, B.; Krüger, Tyll) What can one learn about self-organized criticality from dynamical systems theory? (English summary) **2001a:82052**
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Krikorian, Raphaël Réductibilité des systèmes produits-croisés à valeurs dans des groupes compacts. (English and French summaries) [Reducibility of compact-group-valued skew-product systems] **2001f:37030**
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Maes, Christian (*with* Redig, Frank; Takens, Floris; van Moffaert, Annelies; Verbitskiĭ, E. A.) Intermittency and weak Gibbs states. (English summary) **2001m:37045**
Mera, M. Eugenia (*with* Morán, Manuel) Convergence of the Eckmann and Ruelle algorithm for the estimation of Liapunov exponents. (English summary) **2001a:37032**
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37E10 Maps of the circle

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Ciepliński, Krzysztof On the embeddability of a homeomorphism of the unit circle in disjoint iteration groups. (English summary) **2001j:37072**
Dzhalilov, A. A. The Hölder property of singular measures of circle homeomorphisms with a single break point. (Russian. Russian summary) **2001g:37049**
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— (*with* de Melo, Welington) Rigidity of critical circle mappings. I. (English summary) **2001d:37048**
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de Melo, Welington *see* **de Faria, Edson, 2001d:37048** *and* **2001d:37049**
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Chen, Wen Yi Diophantine characterization of hypoelliptic vector fields on the torus T^2. (English summary) **2001b:35064**
Ciepliński, Krzysztof On conjugacy of disjoint iteration groups on the unit circle. (English summary) **2001a:39053**
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Hric, Roman Topological sequence entropy for maps of the circle. (English summary) **2001c:37016**
Keller, Gerhard An ergodic theoretic approach to mean field coupled maps. (English summary) **2001h:37004**
Li, Si-min A criterion for an interval exchange map to be conjugate to an irrational rotation. (English summary) **2001a:37045**
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37E15 Combinatorial dynamics (types of periodic orbits)

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Avrutin, V. (*with* Wackenhut, G.; Schanz, Michael) On dynamical systems with piecewise defined system functions. **2001h:37078**
Cánovas Peña, José Salvador (*with* Falcó, Antonio) The set of periods for a class of skew-products. (English summary) **2001h:37079**
Crispino, Marcos Luiz On the solutions of the equation $x_{n+1} = x_n + f_A(x_n, x_{n-1})$. (Portuguese. English and Portuguese summaries) **2001h:37080**
Falcó, Antonio *see* **Cánovas Peña, José Salvador, 2001h:37079**
Gallas, Jason A. C. Infinite hierarchies of nonlinearly dependent periodic orbits. (English summary) **2001m:37077**
King, Deborah M. Non-uniqueness of even order permutations with maximal entropy. (English summary) **2001f:37047**
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Llibre, Jaume *see* **Alsedà, Lluís et al., 2001j:37073**
Lowenstein, J. H. (*with* Vivaldi, Franco) Embedding dynamics for round-off errors near a periodic orbit. (English summary) **2001j:37074**
Misiurewicz, Michał *see* **Alsedà, Lluís et al., 2001j:37073**
Mulvey, Irene On the structure of the totally ordered set of unimodal cycles. (English summary) **2001j:37075**
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Uezu, Tatsuya Superconvergence of period-doubling cascade in trapezoid maps—its rigorous proof and superconvergence of the period-doubling cascade starting from a period p solution. (English summary) **2001h:37081**
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Yang, Jing Chun Nonwandering sets for continuous self-maps of a tree. (Chinese. English and Chinese summaries) **2001i:37059**
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Jenkinson, Oliver Frequency locking on the boundary of the barycentre set. (English summary) **2001g:37050**
Maĭstrenko, V. L. *see* **Maĭstrenko, Yurīĭ L. et al., 2001g:37046**
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Mitra, Tapan A sufficient condition for topological chaos with an application to a model of endogenous growth. (English summary) **2001k:91096**
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Vilela Mendes, Rui Multistability in dynamical systems. (English summary) **2001i:37044**
Zgliczyński, Piotr Multidimensional perturbations of one-dimensional maps and stability of Šarkovskiĭ ordering. (English summary) **2001a:37017**

37E20 Universality, renormalization [see also 37F25]

Gallas, Jason A. C. *see* **Hunt, Brian R. et al., 2001i:37060**
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Levin, Genadi (*with* van Strien, Sebastian) Bounds for maps of an interval with one critical point of inflection type. II. (English summary) **2001i:37061**
Matsuba, Ikuo Parameter renormalization group approach to noisy one-dimensional maps. (English summary) **2001d:37050**
Mestel, B. D. (*with* Osbaldestin, A. H.) Asymptotics of scaling parameters for period-doubling in unimodal maps with asymmetric critical points. (English summary) **2001g:37052**
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— (*with* de Melo, Welington) Rigidity of critical circle mappings. I. (English summary) **2001d:37048**
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Flatto, Leopold (*with* Lagarias, Jeffrey C.) The lap-counting and zeta functions of the tent map. (English summary) **2001g:37044**
Goto, Shin-itiro (*with* Nozaki, Kazuhiro) Regularized renormalization group reduction of symplectic maps. (English summary) **2001m:37113**
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Lagarias, Jeffrey C. *see* **Flatto, Leopold, 2001g:37044**
Lyubich, Mikhail The quadratic family as a qualitatively solvable model of chaos. **2001g:37063**
de Melo, Welington (*with* Pinto, A. A.) Rigidity of C^2 infinitely renormalizable unimodal maps. (English summary) **2001d:37043**
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Mestel, B. D. *see* **Osbaldestin, A. H., (2001e:00026)**
Neumann, Eireen *see* **Kuznetsov, Sergeĭ Petrovich[1] et al., 2001h:37066**
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Osbaldestin, A. H. (*with* Mestel, B. D.) Renormalization of asymmetric unimodal maps. (English summary) (*see* **2001e:00026**)
Peng, Shou-Li *see* **Zhou, Zhong, 2001d:37046**
Pikovskiĭ, A. S. *see* **Kuznetsov, Sergeĭ Petrovich[1] et al., 2001h:37066**
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Sataev, Igor R. *see* **Kuznetsov, Sergeĭ Petrovich[1] et al., 2001h:37066**
Silva, Luis (*with* Sousa Ramos, José) Two-parameter families of discontinuous one-dimensional maps. (English summary) **2001a:37047**
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Young, Lai-Sang *see* **Benedicks, Michael, 2001g:37030**
Zhou, Zhong (*with* Peng, Shou-Li) Cyclic star products and universalities in symbolic dynamics of trimodal maps. (English summary) **2001d:37046**

37E25 Maps of trees and graphs

Arai, Tatsuya (*with* Chinen, Naotsugu; Kato, Hisao; Yokoi, Katsuya) The construction of P-expansive maps of regular continua: a geometric approach. (English summary) **2001h:37082**
Baillif, Mathieu Dynamical zeta functions for tree maps. (English summary) **2001a:37050**
Chen, William Y. C. (*with* Louck, James D.; Wang, Jun[1]) Adjacency and parity relations of words in discrete dynamical systems. (English summary) **2001j:37076**
Chinen, Naotsugu *see* **Arai, Tatsuya et al., 2001h:37082**
Kato, Hisao *see* **Arai, Tatsuya et al., 2001h:37082**
Los, Jérôme E. (*with* Nitecki, Zbigniew H.) Edge-transitive graph automorphisms and periodic surface homeomorphisms. (English summary) **2001h:37083**
Louck, James D. *see* **Chen, William Y. C. et al., 2001j:37076**
Lü, Jie[3] Chaos and order of inverse limit space for a graph map. (English summary) **2001h:37084**
— (*with* Xiong, Jincheng; Ye, Xiang Dong[1]) The inverse limit space and the dynamics of a graph map. (English summary) **2001h:37085**
Nitecki, Zbigniew H. *see* **Los, Jérôme E., 2001h:37083**
Niu, Ying Xuan A necessary and sufficient condition for continuous maps of a tree to have a homoclinic point. (Chinese. English and Chinese summaries) **2001g:37053**
Wang, Jun[1] *see* **Chen, William Y. C. et al., 2001j:37076**
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Gu, Shu Sheng *see* **Wang, Xing Yuan**
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Nunes, Ana *see* **Llibre, Jaume, 2001b:55006**
Wang, Xing Yuan (*with* Gu, Shu Sheng) Quantitative observation for the chaos characteristics of logistic-map-graph-set attractors. (Chinese. English and Chinese summaries)
Yang, Jing Chun Nonwandering sets for continuous self-maps of a tree. (Chinese. English and Chinese summaries) **2001i:37059**

37E30 Homeomorphisms and diffeomorphisms of planes and surfaces

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Adler, Roy (*with* Kitchens, Bruce; Tresser, Charles) Report on the dynamics of certain piecewise isometries of the torus. (English summary) **2001m:37078**
Afraimovich, Valentin S. (*with* Young, Todd R.) Multipliers of homoclinic orbits on surfaces and characteristics of associated invariant sets. (English summary) **2001e:37050**
— (*with* Young, Todd R.) Mather invariants and smooth conjugacy on S^2. (English summary) **2001f:37048**
Anglès d'Auriac, J.-Ch. *see* **Abarenkova, N. et al., 2001b:37062**
Athanassopoulos, Konstantin On the Ruelle rotation for torus diffeomorphisms. **2001a:37051**
Balibrea Gallego, Francisco (*with* Linero, A.) Some results on topological dynamics of antitriangular maps. (English summary) **2001j:37077**
Bischi, Gian Italo *see* **Gardini, Laura, 2001e:37051**
Bonino, Marc Propriétés locales de l'espace des homéomorphismes de Brouwer. (English summary) [Local properties of the space of Brouwer homeomorphisms] **2001i:37062**
Boukraa, S. *see* **Abarenkova, N. et al., 2001b:37062**
Boyland, Philip Isotopy stability of dynamics on surfaces. (English summary) **2001i:37063**
Chamberland, Marc Diffeomorphic real-analytic maps and the Jacobian conjecture. (English summary) **2001m:37079**
Dobrynskiĭ, V. A. On the structure of the set of nonwandering points of a pair of coupled quadratic mappings. (Russian. English and Ukrainian summaries) **2001a:37052**
Fehrenbach, Jérôme (*with* Los, Jérôme E.) Une minoration de l'entropie topologique des difféomorphismes du disque. (English summary) [Lower bound for the topological entropy of diffeomorphisms of the disk] **2001f:37049**
Gardini, Laura (*with* Bischi, Gian Italo) Focal points and focal values in rational maps. **2001e:37051**
Goetz, Arek A self-similar example of a piecewise isometric attractor. (English summary) **2001k:37060**
Hassani, Saoud *see* **Abarenkova, N. et al., 2001b:37062**
Hirsch, Morris W. Fixed-point indices, homoclinic contacts, and dynamics of injective planar maps. **2001b:37063**
Kin, Eiko The third power of the Smale horseshoe induces all link types. (English summary) **2001j:37078**
Kitchens, Bruce *see* **Adler, Roy et al., 2001m:37078**
Kruglikov, B. S. Exact classification of divergence-free nondivergent vector fields on surfaces of small genus. (Russian. Russian summary) **2001b:37064**
Le Roux, Frédéric Migration des points errants d'un homéomorphisme de surface. (English and French summaries) [Migration of wandering points of a surface homeomorphism] **2001h:37086**
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Maillard, J.-M. *see* **Abarenkova, N. et al., 2001b:37062**
Matsuoka, Takashi[1] On the linking structure of periodic orbits for embeddings of the disk. (English summary) **2001f:37050**
Steinberger, Thomas Hausdorff dimension of attractors for two dimensional Lorenz transformations. (English summary) **2001g:37054**
Tresser, Charles *see* **Adler, Roy et al., 2001m:37078**
Young, Todd R. *see* **Afraimovich, Valentin S., 2001e:37050** *and* **2001f:37048**

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Abraham, Ralph Herman *see* **Gardini, Laura et al., 2001b:58061**
Adrover, Alessandra *see* **Cerbelli, Stefano et al., 2001i:37053**
Alvarez, Mario M. *see* **Cerbelli, Stefano et al., 2001i:37053**
Asaoka, Masayuki Markov covers and finiteness of periodic attractors for diffeomorphisms with a dominated splitting. (English summary) **2001b:37040**
Ashwin, Peter (*with* Fu, Xin-Chu; Nishikawa, Takashi; Życzkowski, Karol) Invariant sets for discontinuous parabolic area-preserving torus maps. (English summary) **2001a:37075**
Bischi, Gian Italo *see* **Gardini, Laura et al., 2001b:58061**
Brinkmann, Peter An implementation of the Bestvina-Handel algorithm for surface homeomorphisms. (English summary) **2001e:57017**
Cerbelli, Stefano (*with* Giona, Massimiliano; Adrover, Alessandra; Alvarez, Mario M.; Muzzio, Fernando J.) Invariant properties of a class of exactly solvable mixing transformations—a measure-theoretical approach to model the evolution of material lines advected by chaotic flows. (English summary) **2001i:37053**
Crispino, Marcos Luiz On the solutions of the equation $x_{n+1} = x_n + f_A(x_n, x_{n-1})$. (Portuguese. English and Portuguese summaries) **2001h:37080**
Dullin, H. R. (*with* Sterling, David; Meiss, James D.) Self-rotation number using the turning angle. (English summary) **2001h:37088**
Fu, Xin-Chu *see* **Ashwin, Peter et al., 2001a:37075**
Gardini, Laura (*with* Bischi, Gian Italo; Abraham, Ralph Herman) A bridge between Whitney's fold and cusp and the critical curves in two-dimensional endomorphisms. **2001b:58061**
Giona, Massimiliano *see* **Cerbelli, Stefano et al., 2001i:37053**
Girīk, E. A. Isotopic equivalence of Morse-Smale polar vector fields on compact closed surfaces. (Russian) **2001c:37026**
Gonchenko, S. V. (*with* Shil'nikov, L. P.) On two-dimensional area-preserving diffeomorphisms with infinitely many elliptic islands. (English summary) **2001m:37132**
Grines, V. Z. (*with* Plykin, R. V.) Topological classification of amply situated attractors of A-diffeomorphisms of surfaces. **2001h:37042**
Jarque, Xavier (*with* Nitecki, Zbigniew H.) Hamiltonian stability in the plane. (English summary) **2001d:37019**
Lowenstein, J. H. (*with* Vivaldi, Franco) Embedding dynamics for round-off errors near a periodic orbit. (English summary) **2001j:37074**
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37Fxx Complex dynamical systems [see also 30D05, 32H50]

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37F05 Relations and correspondences

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37F10 Polynomials; rational maps; entire and meromorphic functions [see also 32A10, 32A20, 32H02, 32H04]

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Astala, Kari (*with* Balogh, Zoltan M.; Reimann, Hans Martin) Lempert mappings and holomorphic motions in $\mathbf{C}^n$. (English and French summaries) **2001d:32023**
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Barnes, Julia A. (*with* Koss, Lorelei) One-sided Lebesgue Bernoulli maps of the sphere of degree n^2 and $2n^2$. (English summary) **2001c:37004**
Bedford, Eric (*with* Jonsson, Mattias) Dynamics of regular polynomial endomorphisms of $\mathbf{C}^k$. (English summary) **2001c:32012**
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Haydn, Nicolai Statistical properties of equilibrium states for rational maps. (English summary) **2001i:37069**
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Jonsson, Mattias *see* **Diller, Jeffrey, 2001b:37070** *and* **Bedford, Eric, 2001c:32012**
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Morosawa, Shunsuke Julia sets of subhyperbolic rational functions. (English summary) **2001a:37061**
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Roesch, Pascale Holomorphic motions and puzzles (following M. Shishikura). (English summary) **2001c:37046**
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Sørensen, Dan Erik Krarup Infinitely renormalizable quadratic polynomials, with non-locally connected Julia set. (English summary) **2001e:37057**
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van Strien, Sebastian Misiurewicz maps unfold generically (even if they are critically non-finite). (English summary) **2001g:37064**
Tan, Lei[1] *see* **Shishikura, Mitsuhiro, 2001b:37074**
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37F15 Expanding maps; hyperbolicity; structural stability

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Diller, Jeffrey (*with* Jonsson, Mattias) Topological entropy on saddle sets in $\mathbf{P}^2$. **2001b:37070**
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— Rigidity and expansion for rational maps. (English summary) **2001m:37085**
Jonsson, Mattias *see* **Diller, Jeffrey, 2001b:37070**
Shen, Weixiao On the qc rigidity of real polynomials. (*see* **2001h:37090**)
Świątek, Grzegorz *see* **Graczyk, Jacek, 2001k:37066**
Wu, Shengjian *see* **Essén, Matts R., 2001k:37065**
Yamagishi, Yoshikazu Cantor-bouquet of holomorphic stable manifolds for a periodic indeterminate point. (English summary) **2001k:37067**
Yoshikazu, Yamagishi Cantor family of superstable manifolds of a double root in the dynamics of Newton's method. (English summary) (*see* **2001m:37002**)

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37F20 Combinatorics and topology

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Alsedà, Lluís (*with* Fagella, Núria) Dynamics on Hubbard trees. (English summary) **2001h:37094**
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37F25 Renormalization

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Jiang, Yunping Infinitely renormalizable quadratic polynomials. (English summary) **2001b:37071**
Sørensen, Dan Erik Krarup Infinitely renormalizable quadratic polynomials, with non-locally connected Julia set. (English summary) **2001e:37057**

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de Faria, Edson Asymptotic rigidity of scaling ratios for critical circle mappings. (English summary) **2001d:37047**
— (*with* de Melo, Welington) Rigidity of critical circle mappings. II. (English summary) **2001d:37049**
Levin, Genadi (*with* van Strien, Sebastian) Bounds for maps of an interval with one critical point of inflection type. II. (English summary) **2001i:37061**
Lyubich, Mikhail How big is the set of infinitely renormalizable quadratics? **2001c:37041**
— The quadratic family as a qualitatively solvable model of chaos. **2001g:37063**
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van Strien, Sebastian *see* **Levin, Genadi, 2001i:37061**

37F30 Quasiconformal methods and Teichmüller theory; Fuchsian and Kleinian groups as dynamical systems

Bridgeman, Martin (*with* Taylor, Edward C.[2]) Length distortion and the Hausdorff dimension of limit sets. (English summary) **2001e:37058**
Buff, Xavier *see* **Douady, Adrien et al., 2001g:37062**
Cosentino, Salvatore Equidistribution of parabolic fixed points in the limit set of Kleinian groups. (English summary) **2001m:37087**
Dal'Bo, Françoise (*with* Starkov, A. N.) On a classification of limit points of infinitely generated Schottky groups. (English summary) **2001f:37060**
Devaney, Robert L. *see* **Douady, Adrien et al., 2001g:37062**
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Kallunki, Sari (*with* Koskela, Pekka) Exceptional sets for the definition of quasiconformality. (English summary) **2001h:37095**
Komori, Yohei A note on a paper of Sasaki. (*see* **2001h:37090**)
Koskela, Pekka *see* **Kallunki, Sari, 2001h:37095**
McMullen, Curtis T. Hausdorff dimension and conformal dynamics. I. Strong convergence of Kleinian groups. (English summary) **2001c:37045**
Petersen, Carsten Lunde No elliptic limits for quadratic maps. (English summary) **2001j:37080**
Sentenac, Pierrette *see* **Douady, Adrien et al., 2001g:37062**
Starkov, A. N. *see* **Dal'Bo, Françoise, 2001f:37060**
Stratmann, Bernd O. Weak singularity spectra of the Patterson measure for geometrically finite Kleinian groups with parabolic elements. **2001a:37059**
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Haïssinsky, Peter Déformation J-équivalente de polynômes géometriquement finis. (English summary) [J-equivalent deformation of geometrically finite polynomials] **2001c:37044**
— Rigidity and expansion for rational maps. (English summary) **2001m:37085**
Lakic, Nikola *see* **Earle, Clifford J. et al., 2001m:32029**
Makienko, P. M. Unbounded components in parameter space of rational maps. (English summary) **2001a:37060**
McMullen, Curtis T. Hausdorff dimension and conformal dynamics. II. Geometrically finite rational maps. (English summary) **2001m:37089**

37F35 Conformal densities and Hausdorff dimension

Denker, Manfred (*with* Rohde, Steffen) On Hausdorff measures and SBR measures for parabolic rational maps. (English summary) **2001k:37070**
Fisher, Albert M. (*with* Urbański, Mariusz) On invariant line fields. (English summary) **2001j:37081**
Hayda, Nicolai Statistical properties of equilibrium states for rational maps. (English summary) **2001i:37069**
Lee, Eileen F. The structure and topology of the Brjuno numbers. (English summary) **2001k:37071**
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McMullen, Curtis T. Hausdorff dimension and conformal dynamics. II. Geometrically finite rational maps. (English summary) **2001m:37089**
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Cai, Hai Tao Some results on the growth property of entire function. **2001c:30030**
Cosentino, Salvatore Equidistribution of parabolic fixed points in the limit set of Kleinian groups. (English summary) **2001m:37087**
Fornæss, John Erik (*with* Sibony, Nessim) Dynamics of $\mathbf{P}^2$ (examples). **2001k:32034**
Franz, Astrid Hausdorff dimension estimates for non-injective maps using the cardinality of the pre-image sets. (English summary) **2001k:37037**
Graczyk, Jacek (*with* Świątek, Grzegorz) Harmonic measure and expansion on the boundary of the connectedness locus. (English summary) **2001k:37066**
Mauldin, R. Daniel (*with* Urbański, Mariusz) Parabolic iterated function systems. (English summary) **2001m:37047**
Sibony, Nessim *see* **Fornæss, John Erik, 2001k:32034**
Stallard, Gwyneth M. The Hausdorff dimension of Julia sets of hyperbolic meromorphic functions. (English summary) **2001e:37060**
— The Hausdorff dimension of Julia sets of hyperbolic meromorphic functions. II. (English summary) **2001e:37061**
Stratmann, Bernd O. Weak singularity spectra of the Patterson measure for geometrically finite Kleinian groups with parabolic elements. **2001a:37059**
Sumi, Hiroki Dynamics of rational semigroups and skew products. **2001d:37057**
— Skew product maps related to finitely generated rational semigroups. (English summary) **2001g:37060**
Świątek, Grzegorz *see* **Graczyk, Jacek, 2001k:37066**
Taylor, Edward C.[2] *see* **Bridgeman, Martin, 2001e:37058**
Urbański, Mariusz Hausdorff measures versus equibrium states of conformal infinite iterated function systems. (English summary) **2001k:28012**
— *see also* **Mauldin, R. Daniel, 2001m:37047**
Yin, Yong Cheng Geometry and dimension of Julia sets. (English summary) **2001d:37062**

37F40 Geometric limits

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de Faria, Edson Asymptotic rigidity of scaling ratios for critical circle mappings. (English summary) **2001d:37047**

37F45 Holomorphic families of dynamical systems; the Mandelbrot set; bifurcations

Branner, Bodil (*with* Fagella, Núria) Homeomorphisms between limbs of the Mandelbrot set. (English summary) **2001j:37082**
Epstein, Adam Lawrence Bounded hyperbolic components of quadratic rational maps. (English summary) **2001i:37070**
Fagella, Núria The Mandelbrot set and other bifurcation planes. (Catalan)
— *see also* **Branner, Bodil, 2001j:37082**
Gu, Shu Sheng *see* **Wang, Xing Yuan et al., 2001j:37083**
Keller, Karsten ★ Invariant factors, Julia equivalences and the (abstract) Mandelbrot set. **2001m:37090**
Liu, Xiang Dong *see* **Wang, Xing Yuan et al., 2001j:37083**
Lyubich, Mikhail The quadratic family as a qualitatively solvable model of chaos. **2001g:37063**
Makienko, P. M. Unbounded components in parameter space of rational maps. (English summary) **2001a:37060**
Roesch, Pascale Holomorphic motions and puzzles (following M. Shishikura). (English summary) **2001c:37046**
Schleicher, Dierk Rational parameter rays of the Mandelbrot set. (English and French summaries) **2001f:37061**
Shiga, Hiroshige On holomorphic families of rational maps: finiteness, rigidity and stability. (English summary) **2001k:37072**
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Smirnov, Stanislav K. Symbolic dynamics and Collet-Eckmann conditions. **2001i:37071**
van Strien, Sebastian Misiurewicz maps unfold generically (even if they are critically non-finite). (English summary) **2001g:37064**
Tan, Lei[1] Local properties of the Mandelbrot set at parabolic points. (English summary) **2001g:37065**
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Zhu, Wei Yong *see* **Wang, Xing Yuan et al., 2001j:37083**

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Buff, Xavier *see* **Douady, Adrien et al., 2001g:37062**
Devaney, Robert L. *see* **Douady, Adrien et al., 2001g:37062**
Douady, Adrien (*with* Buff, Xavier; Devaney, Robert L.; Sentenac, Pierrette) Baby Mandelbrot sets are born in cauliflowers. (English summary) **2001g:37062**
He, Xiqin *see* **Liu, Xiang Dong et al., 2001c:37048**
Jellouli, Habib Indice holomorphe et multiplicateur. (English and French summaries) [Holomorphy index and multiplier] **2001a:37056**
Klimek, Maciej Inverse iteration systems in $\mathbf{C}^n$. **2001m:32037**
Liu, Xiang Dong (*with* He, Xiqin; Zhu, Wei Yong) The bounds and the dimensions of the general M and J sets. (English summary) **2001c:37048**
Lyubich, Mikhail How big is the set of infinitely renormalizable quadratics? **2001c:37041**
Mandelbrot, Benoit B. Some mathematical questions arising in fractal geometry. (English summary) **2001k:28011**
Risler, Emmanuel Linéarisation des perturbations holomorphes des rotations et applications. (English and French summaries) [Linearization of holomorphic perturbations of rotations, and applications] **2001k:37075**
Sentenac, Pierrette *see* **Douady, Adrien et al., 2001g:37062**
Uchimura, Keisuke The sets of points with bounded orbits for generalized Chebyshev mappings. (English summary) **2001k:37063**
Zhu, Wei Yong *see* **Liu, Xiang Dong et al., 2001c:37048**

37F50 Small divisors, rotation domains and linearization; Fatou and Julia sets

Andreadis, Ioannis *see* **Argyris, John et al., 2001c:37047**
Argyris, John (*with* Karakasidis, Theodoros E.; Andreadis, Ioannis) On the Julia set of the perturbed Mandelbrot map. (English summary) **2001c:37047**
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Gramchev, Todor V. (*with* Yoshino, Masafumi) Rapidly convergent iteration method for simultaneous normal forms of commuting maps. (English summary) **2001b:37072**
He, Xiqin *see* **Liu, Xiang Dong et al., 2001c:37048**
Hu, Pei Chu (*with* Yang, Chung-Chun) Fatou-Julia theory in differentiable dynamics. **2001g:37066**
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Lorentzen, Lisa Convergence of compositions of self-mappings. (English summary) **2001m:37091**
Milnor, John W. Local connectivity of Julia sets: expository lectures. (English summary) **2001b:37073**
— On rational maps with two critical points. (English summary) **2001k:37074**
Morosawa, Shunsuke Julia sets of subhyperbolic rational functions. (English summary) **2001a:37061**
— Appearance of Baker domains and wandering domains. (Japanese) (*see* **2001h:37090**)
Niamsup, Piyapong Julia sets of certain exponential functions. (English summary) **2001f:37062**
Qiu, Wei Yuan *see* **Zhou, Ji[2] et al., 2001i:37072**
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Risler, Emmanuel Linéarisation des perturbations holomorphes des rotations et applications. (English and French summaries) [Linearization of holomorphic perturbations of rotations, and applications] **2001k:37075**
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Stallard, Gwyneth M. The Hausdorff dimension of Julia sets of hyperbolic meromorphic functions. (English summary) **2001e:37060**
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Tan, Lei[1] *see* **Shishikura, Mitsuhiro, 2001b:37074**
Yang, Chung-Chun *see* **Hu, Pei Chu, 2001g:37066**
Yang, Guo Xiao[2] *see* **Zhong, Bo, 2001d:37063**
Yin, Yong Cheng Julia sets of semi-hyperbolic rational maps. (Chinese. Chinese summary) **2001c:37049**
— Geometry and dimension of Julia sets. (English summary) **2001d:37062**
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37G15 Bifurcations of limit cycles and periodic orbits

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37G25 Bifurcations connected with nontransversal intersection

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37G35 Attractors and their bifurcations

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Terry, John R. *see* **Ashwin, Peter, 2001c:37053**

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37G40 Symmetries, equivariant bifurcation theory

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Ashwin, Peter (*with* Field, Michael) Heteroclinic networks in coupled cell systems. (English summary) **2001d:37072**
Bonckaert, Patrick Symmetric and reversible families of vector fields near a partially hyperbolic singularity. (English summary) **2001k:37083**
Chillingworth, D. R. J. Generic multiparameter bifurcation from a manifold. (English summary) **2001d:37073**
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37G99 None of the above, but in this section

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Bogdanov, R. I. Multiplicative theory of the orbital equivalence of vector fields on the plane. (Russian) **2001g:37022**
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37Hxx Random dynamical systems [see also 15A52, 34D08, 34F05, 47B80, 70L05, 82C05, 93Exx]

37H05 Foundations, general theory of cocycles, algebraic ergodic theory [see also 37Axx]

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37H10 Generation, random and stochastic difference and differential equations [see also 34F05, 34K50, 60H10, 60H15]

Chueshov, Igor D. Gevrey regularity of random attractors for stochastic reaction-diffusion equations. (English summary) **2001g:37083**
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37H15 Multiplicative ergodic theory, Lyapunov exponents [see also 34D08, 37Axx, 37Cxx, 37Dxx]

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37Jxx Finite-dimensional Hamiltonian, Lagrangian, contact, and nonholonomic systems [see also 53Dxx, 70Fxx, 70Hxx]

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37J45 Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods

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— Variational minimizing properties for N-body problems. (English summary) **2001a:70014**
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37J50 Action-minimizing orbits and measures

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37J55 Contact systems [see also 53D10]

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37Kxx Infinite-dimensional Hamiltonian systems [see also 35Axx, 35Qxx]

37K05 Hamiltonian structures, symmetries, variational principles, conservation laws

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37K10 Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.)

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37K65 Hamiltonian systems on groups of diffeomorphisms and on manifolds of mappings and metrics

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37L05 General theory, nonlinear semigroups, evolution equations

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— (*with* Knobloch, Edgar; Stewart, Ian N.) Target patterns and spirals in planar reaction-diffusion systems. (English summary) **2001d:35096**
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Hawkins, S. C. (*with* Spence, A.) The detection of Hopf bifurcations in discretisations of certain nonlinear partial differential equations. (English summary) **2001d:65046**
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37L15 Stability problems

Nii, Shunsaku The accumulation of eigenvalues in a stability problem. (English summary) **2001d:37144**

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Fu, Yiping *see* **Zhou, Li[1], 2001b:35286**
Koch, Herbert (*with* Antman, Stuart S.) Stability and Hopf bifurcation for fully nonlinear parabolic-hyperbolic equations. (English summary) **2001g:35189**
Kornev, A. A. On the approximation of attractors of semidynamical systems. (Russian. Russian summary) **2001c:37096**
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37L20 Symmetries

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Judd, Stephen L. (*with* Silber, Mary) Simple and superlattice Turing patterns in reaction-diffusion systems: bifurcation, bistability, and parameter collapse. (English summary) **2001a:37125**
Kurakin, L. G. (*with* Yudovich, V. I.) Application of the Lyapunov-Schmidt method to the problem of the branching of a cycle from a family of equilibria of a system with multicosymmetry. (Russian. Russian summary) **2001e:37066**
Melbourne, Ian Hidden symmetries on partially unbounded domains. (English summary) **2001f:35207**
Sell, George R. *see* **Babin, Anatolii V., 2001i:35032**
Silber, Mary *see* **Judd, Stephen L., 2001a:37125**
Wulff, Claudia Transitions from relative equilibria to relative periodic orbits. (English summary) **2001f:37128**
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37L25 Inertial manifolds and other invariant attracting sets

Eguíluz, Víctor M. (*with* Hernández-García, Emilio; Piro, Oreste) Boundary effects in extended dynamical systems. (English summary) **2001j:37137**
Fabrie, Pierre (*with* Galusinski, Cédric; Miranville, Alain) Uniform inertial sets for damped wave equations. (English summary) **2001c:37091**
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Kazantzis, Nikolaos Singular PDEs and the problem of finding invariant manifolds for nonlinear dynamical systems. **2001k:35052**
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Zelik, S. V. The attractor for a nonlinear hyperbolic equation in the unbounded domain. (English summary) **2001m:35230**
— *see also* **Efendiev, Messoud et al., 2001c:35039; 2001m:35035** *and* **Schulze, Bert-Wolfgang et al., 2001d:35025**
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Zhao, Chun Shan The asymptotic behavior of the non-autonomous sine-Gordon equation. (English summary) **2001j:35209**
— (*with* Li, Kai Tai) The uniform attractor of non-autonomous Navier-Stokes equations on unbounded domains and estimates of its dimensions. (Chinese. English and Chinese summaries) **2001e:35020**
— (*with* Li, Kai Tai) The long time behaviors of non-autonomous Navier-Stokes equations with linear dampness on the whole $\mathbf{R}^2$ space. (English summary) **2001f:35325**
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Zhao, Yi[1] *see* **Huang, Yu[1] et al., 2001f:35053**
Zheng, Song Mu Maximal attractor for some nonlinear PDEs. (English summary) **2001j:35150**
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37L40 Invariant measures

Kuksin, Sergei B. (*with* Shirikyan, A. R.) Stochastic dissipative PDEs and Gibbs measures. (English summary) **2001i:37132**
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Pelinovsky, Dmitry E. (*with* Sulem, Catherine) Spectral decomposition for the Dirac system associated to the DSII equation. (English summary) **2001a:35158**
Sulem, Catherine *see* **Pelinovsky, Dmitry E., 2001a:35158**

37L45 Hyperbolicity; Lyapunov functions

Slijepčević, Siniša Extended gradient systems: dimension one. (English summary) **2001i:37133**

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Bates, Peter W. (*with* Lu, Kening; Zeng, Chongchun) Invariant foliations near normally hyperbolic invariant manifolds for semiflows. **2001b:37031**
Cheban, D. N. Global attractors of infinite-dimensional nonautonomous dynamical systems. II. (English, Russian and Moldavian summaries) **2001h:37036**
Lu, Kening *see* **Bates, Peter W. et al., 2001b:37031**
Zeng, Chongchun *see* **Bates, Peter W. et al., 2001b:37031**

37L50 Noncompact semigroups; dispersive equations; perturbations of Hamiltonian systems

Items with secondary classifications in 37L50

Dyson, Janet (*with* Villella-Bressan, Rosanna; Webb, Glenn F.) A nonlinear age and maturity structured model of population dynamics. II. Chaos. (English summary) **2001i:92042**
Huang, De-Bin *see* **Liu, Zeng Rong et al., 2001a:35157**
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Villella-Bressan, Rosanna *see* **Dyson, Janet et al., 2001i:92042**
Webb, Glenn F. *see* **Dyson, Janet et al., 2001i:92042**
Xu, Zhen Yuan[2] *see* **Liu, Zeng Rong et al., 2001a:35157**

37L55 Infinite-dimensional random dynamical systems; stochastic equations [see also 35R60, 60H10, 60H15]

Items with secondary classifications in 37L55

Gaveau, Bernard (*with* Moreau, Michel) Metastable relaxation times and absorption probabilities for multidimensional stochastic systems. (English summary) **2001i:82049**
Kossakowski, A. (*with* Ohya, Masanori; Watanabe, Noboru) Quantum dynamical entropy for completely positive map. (English summary) **2001k:46105**
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37L60 Lattice dynamics [see also 37K60]

Afraimovich, Valentin S. (*with* Courbage, M.) On the abundance of traveling waves in coupled expanding circle maps. (English summary) **2001e:37113**
— (*with* Fernandez, Bastien) Topological properties of linearly coupled expanding map lattices. (English summary) **2001e:37114**
Bates, Peter W. (*with* Lu, Kening; Wang, Bi Xiang) Attractors for lattice dynamical systems. (English summary) **2001m:37172**
Courbage, M. *see* **Afraimovich, Valentin S., 2001e:37113**
Fernandez, Bastien *see* **Afraimovich, Valentin S., 2001e:37114**
Glebskiĭ, L. Yu. Local linear operators and multicircuit solutions of homogeneous coupled map lattices. (Russian. Russian summary) **2001f:37135**
Lu, Kening *see* **Bates, Peter W. et al., 2001m:37172**

Mackay, Robert S. Dynamics of networks: features which persist from the uncoupled limit. (English summary) **2001e:37115**
Mallet-Paret, John Spatial patterns, spatial chaos, and traveling waves in lattice differential equations. (English summary) **2001c:37100**
Orendovici, D. R. (*with* Pesin, Yakov B.) Chaos in traveling waves of lattice systems of unbounded media. (English summary) **2001f:37136**
Pando Lambruschini, Carlos L. Effects of a periodic perturbation on a discrete-time model of coupled oscillators. (English summary) **2001d:37148**
Pesin, Yakov B. To the memory of Radu Orendovici. (English summary) (*see* **2001f:37002**)
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Qian, Dingbian *see* **Qin, Wen-Xin, 2001d:37149**
Qin, Wen-Xin (*with* Qian, Dingbian) Chaotic patterns in coupled map lattices. (English summary) **2001d:37149**
Wang, Bi Xiang *see* **Bates, Peter W. et al., 2001m:37172**

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Crounse, Kenneth R. *see* **Min, Lequan et al., 2001e:37121**
Ebeling, Werner *see* **Makarov, Valeriĭ Anatol'evich et al., 2001c:37089**
Fernandez, Bastien (*with* Tereshko, Valeriĭ M.) Population dynamics in heterogeneous environments: a discrete model. (English summary) **2001f:37139**
Gielis, G. (*with* Mackay, Robert S.) Coupled map lattices with phase transition. (English summary) **2001c:82055**
Keller, Gerhard Coupled map lattice via transfer operators on functions of bounded variation. (English summary) **2001j:37047**
Kevrekidis, P. G. (*with* Weinstein, M. I.) Dynamics of lattice kinks. (English summary) **2001a:37120**
Losson, Jérôme (*with* Mackey, Michael C.) Thermodynamic properties of coupled map lattices. (English summary) **2001e:37040**
Mackay, Robert S. *see* **Gielis, G., 2001c:82055**
Mackey, Michael C. *see* **Losson, Jérôme, 2001e:37040**
Makarov, Valeriĭ Anatol'evich (*with* Ebeling, Werner; Velarde, Manuel G.) Soliton-like waves on dissipative Toda lattices. (English summary) **2001c:37089**
Min, Lequan (*with* Crounse, Kenneth R.; Chua, Leon O.) Analytical criteria for local activity of reaction-diffusion CNN with four state variables and applications to the Hodgkin-Huxley equation. (English summary) **2001e:37121**
Shih, Chih-Wen Influence of boundary conditions on pattern formation and spatial chaos in lattice systems. (English summary) **2001d:34071**
Tereshko, Valeriĭ M. *see* **Fernandez, Bastien, 2001f:37139**
Velarde, Manuel G. *see* **Makarov, Valeriĭ Anatol'evich et al., 2001c:37089**
Weinstein, M. I. *see* **Kevrekidis, P. G., 2001a:37120**

37L65 Special approximation methods (nonlinear Galerkin, etc.)

Items with secondary classifications in 37L65

Hou, Yan Ren *see* **Li, Kai Tai, 2001e:37106**
Hu, Chang Bing *see* **Ma, Yi Chen et al., 2001b:37110**
Huang, Ai Xiang (*with* Liu, Zhi Xing) Post-Galerkin methods based on an approximate inertial manifold. (English summary) (*see* **2001b:65005**)
Ju, Ning Numerical analysis of parabolic p-Laplacian: approximation of trajectories. (English summary) **2001g:65121**
Li, Kai Tai (*with* Hou, Yan Ren) IMD and a family of approximate IMDs. (Chinese. English and Chinese summaries) **2001e:37106**
Liu, Zhi Xing *see* **Ma, Yi Chen et al., 2001b:37110** *and* **Huang, Ai Xiang, (2001b:65005)**
Ma, Yi Chen (*with* Hu, Chang Bing; Liu, Zhi Xing) An inertial manifold for time-discretization with a nonselfadjoint operator. (Chinese. English and Chinese summaries) **2001b:37110**

37L99 None of the above, but in this section

Bunimovich, Leonid A. Space-time chaos in spatially continuous systems. (English summary) **2001g:37145**
Chow, Carson C. An effective stochastic theory of spatiotemporal chaos. (English summary) (*see* **2001e:00026**)
Elbialy, Mohamed Sami On sequences of $C_b^{k,\delta}$ maps which converges in the uniform C^0-norm. (English summary) **2001b:37115**
Naito, Koichiro Correlation dimensions of quasi-periodic trajectories for evolution equations. (*see* **2001d:00047**)

Items with secondary classifications in 37L99

Bates, Peter W. (*with* Fusco, Giorgio) Equilibria with many nuclei for the Cahn-Hilliard equation. (English summary) **2001b:35145**
Feireisl, Eduard (*with* Poláčik, Peter) Structure of periodic solutions and asymptotic behavior for time-periodic reaction-diffusion equations on **R**. (English summary) **2001g:35122**
Feng, Bao-Feng (*with* Kawahara, Takuji) Multiplicity of chaotic and stationary solutions to nonlinear evolution equations. (Japanese) (*see* **2001h:00028**)
Fusco, Giorgio *see* **Bates, Peter W., 2001b:35145**
Hoffmann, Karl-Heinz[1] *see* **Rybka, Piotr, 2001a:35028**
Hundley, Douglas R. (*with* Kirby, Michael Joseph; Miranda, Rick) Empirical dynamical system reduction. II. Neural charts. (English summary) **2001b:37121**
Itaya, Akihiko (*with* Ukai, Seiji) Periodic points of the logistic map with diffusion. (English summary) **2001k:35014**
Kawahara, Takuji *see* **Feng, Bao-Feng, (2001h:00028)**
Kirby, Michael Joseph (*with* Miranda, Rick) Empirical dynamical system reduction I. Global nonlinear transformations. (English summary) **2001b:37120**
— *see also* **Hundley, Douglas R. et al., 2001b:37121**
MacKenzie, T. (*with* Roberts, A. J.) Holistic finite differences accurately model the dynamics of the Kuramoto-Sivashinsky equation. (English summary) (*see* **2001i:65004**)
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Roberts, A. J. *see* **MacKenzie, T., (2001i:65004)**
Rybka, Piotr (*with* Hoffmann, Karl-Heinz[1]) Convergence of solutions to Cahn-Hilliard equation. **2001a:35028**
Shardlow, Tony Geometric ergodicity for stochastic PDEs. (English summary) **2001e:60132**
Sharkovs'kiĭ, Aleksandr Iteration of continuous functions and dynamics of solutions for some boundary value problems. (English summary) **2001a:37072**
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37Mxx Approximation methods and numerical treatment of dynamical systems [see also 65Pxx]

37M05 Simulation

Adler, Carl (*with* Kneusel, Ronald; Younger, William) Chaos, number theory, and computers. (English summary) **2001m:37173**
Hayashi, Masaki *see* **Otsubo, Kenji et al., 2001m:37174**
Itoh, Takao *see* **Otsubo, Kenji et al., 2001m:37174**
Katsuura, Kazuo *see* **Otsubo, Kenji et al., 2001m:37174**
Kneusel, Ronald *see* **Adler, Carl et al., 2001m:37173**
Otsubo, Kenji (*with* Washida, Masakazu; Itoh, Takao; Katsuura, Kazuo; Hayashi, Masaki) Computer simulation on the Gumowski-Mira transformation. (English summary) **2001m:37174**
Washida, Masakazu *see* **Otsubo, Kenji et al., 2001m:37174**
Younger, William *see* **Adler, Carl et al., 2001m:37173**

Items with secondary classifications in 37M05

Abarenkova, N. (*with* Anglès d'Auriac, J.-Ch.; Boukraa, S.; Maillard, J.-M.) Real topological entropy versus metric entropy for birational measure-preserving transformations. (English summary) **2001e:37004**
Anglès d'Auriac, J.-Ch. *see* **Abarenkova, N. et al., 2001e:37004**
Belykh, Igor V. *see* **Belykh, Vladimir N. et al., 2001i:37083**
Belykh, Vladimir N. (*with* Belykh, Igor V.; Hasler, Martin J.) Hierarchy and stability of partially synchronous oscillations of diffusively coupled dynamical systems. (English summary) **2001i:37083**
Boukraa, S. *see* **Abarenkova, N. et al., 2001e:37004**
Hasler, Martin J. *see* **Belykh, Vladimir N. et al., 2001i:37083**
Hoppensteadt, Frank C. ★ Analysis and simulation of chaotic systems. (English summary) **2001h:37001**
Klar, Axel (*with* Wegener, Raimund) Kinetic traffic flow models. (English summary) **2001d:90022**
Maillard, J.-M. *see* **Abarenkova, N. et al., 2001e:37004**
Wegener, Raimund *see* **Klar, Axel, 2001d:90022**

37M10 Time series analysis

Anishchenko, Vadim S. *see* **Pavlov, Alexey N. et al., (2001e:00026)**
Bezruchko, Boris P. (*with* Smirnov, Dmitry A.) Constructing nonautonomous differential equations from experimental time series. (English summary) **2001j:37140**
Bosq, D. (*with* Guégan, D.; Léorat, G.) Statistical estimation of the embedding dimension of a dynamical system. (English summary) **2001b:37116**
Carretero-González, R. *see* **Ørstavik, S. et al., 2001j:37141**
Chen, Guanrong *see* **Xu, Ming et al., 2001m:37175**
Chen, Yu Shu *see* **Ma, Jun Hai, 2001k:37130**
Cheng, Qian Sheng (*with* Wu, Jin Wen; Wang, Shou Zhang) A combined prediction based on attributive cluster networks and radial basis functions. (Chinese. Chinese summary)
— (*with* Wu, Lianwen; Wang, Shou Zhang) Fusion prediction based on the attribute clustering network and the radial basis function. (English summary)
Guégan, D. *see* **Bosq, D. et al., 2001b:37116**
Horbelt, W. *see* **Timmer, J. et al., 2001e:37116**
Léorat, G. *see* **Bosq, D. et al., 2001b:37116**
Ma, Jun Hai (*with* Chen, Yu Shu) An analytic and application to state space reconstruction about chaotic time series. (Chinese. English and Chinese summaries) **2001k:37130**
Miyano, Takaya Testing for chaos by means of nonlinear time series analysis. (Japanese) (*see* **2001d:00047**)
Mosekilde, Erik *see* **Pavlov, Alexey N. et al., (2001e:00026)**
Ørstavik, S. (*with* Carretero-González, R.; Stark, Jaroslav) Estimation of intensive quantities in spatio-temporal systems from time-series. (English summary) **2001j:37141**
Pavlov, Alexey N. (*with* Mosekilde, Erik; Anishchenko, Vadim S.) Extracting dynamics from return times. (English summary) (*see* **2001e:00026**)
Perona, Paolo (*with* Porporato, Amilcare; Ridolfi, Luca) On the trajectory method for the reconstruction of differential equations from time series. (English summary) **2001d:37150**
Porporato, Amilcare *see* **Perona, Paolo et al., 2001d:37150**
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Rust, Henning *see* **Timmer, J. et al., 2001e:37116**
Shakhverdyan, A. Yu. The finite-difference method of one-dimensional nonlinear systems analysis. (English summary) **2001a:37132**
Smirnov, Dmitry A. *see* **Bezruchko, Boris P., 2001j:37140**
Stark, Jaroslav *see* **Ørstavik, S. et al., 2001j:37141**
Tian, Yan-Tao *see* **Xu, Ming et al., 2001m:37175**
Timmer, J. (*with* Rust, Henning; Horbelt, W.; Voss, H. U.) Parametric, nonparametric and parametric modelling of a chaotic circuit time series. (English summary) **2001e:37116**
Voss, H. U. *see* **Timmer, J. et al., 2001e:37116**
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Xu, Ming (*with* Chen, Guanrong; Tian, Yan-Tao) Identifying chaotic systems using Wiener and Hammerstein cascade models. (English summary) **2001m:37175**

Items with secondary classifications in 37M10

Anastasiadis, A. *see* **Tsiganis, K. et al., 2001c:37070**
Caballero, Victoria On an embedding theorem. (English summary) **2001h:37064**
Cheng, Bing (*with* Tong, Howell) On delay co-ordinates in stochastic dynamical systems. (English summary) **2001d:62092**
Cohen, Ezechiel G. D. *see* **Dettmann, C. P., 2001j:82074**
Cutler, Colleen D. Embedding theorems, scaling structures, and determinism in time series. (English summary) **2001h:62160**
— Computing pointwise fractal dimension by conditioning in multivariate distributions and time series. (English summary) **2001f:28009**
Dettmann, C. P. (*with* Cohen, Ezechiel G. D.) Microscopic chaos and diffusion. (English summary) **2001j:82074**
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Evans, Allan K. (*with* Nimmo, Stuart J.; London, Mark D.) Bispectra and phase correlations for chaotic dynamical systems. (English summary) (*see* **2001c:00022**)
Gailey, P. C. *see* **Hively, L. M. et al., 2001j:92014**
Ghil, Michael *see* **Yiou, Pascal et al., 2001e:86016**
Gog, J. R. (*with* Oprea, Iuliana; Proctor, M. R. E.; Rucklidge, A. M.) Destabilization by noise of transverse perturbations to heteroclinic cycles: a simple model and an example from dynamo theory. (English summary) **2001k:76098**
Hively, L. M. (*with* Protopopescu, Vladimir; Gailey, P. C.) Timely detection of dynamical change in scalp EEG signals. (English summary) **2001j:92014**
Keller, Gerhard (*with* Sporer, Ralph) Remarks on the linear regression approach to dimension estimation. (English summary) **2001d:62069**
Kohda, Tohru (*with* Tsuneda, Akio; Lawrance, Anthony J.) Correlational properties of Chebyshev chaotic sequences. (English summary) **2001g:62050**
Lawrance, Anthony J. *see* **Kohda, Tohru et al., 2001g:62050**
London, Mark D. *see* **Evans, Allan K. et al., (2001c:00022)**
Nimmo, Stuart J. *see* **Evans, Allan K. et al., (2001c:00022)**
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Protopopescu, Vladimir *see* **Hively, L. M. et al., 2001j:92014**
Rabier, Patrick J. The Hopf bifurcation theorem for quasilinear differential-algebraic equations. (English summary) **2001c:34005**
Rucklidge, A. M. *see* **Gog, J. R. et al., 2001k:76098**
Schwartz, Ira B. (*with* Triandaf, Ioanna) Applying geometric control and tracking methods to differential equations. (English summary) (*see* **2001d:92001**)
Sornette, Didier *see* **Yiou, Pascal et al., 2001e:86016**
Sporer, Ralph *see* **Keller, Gerhard, 2001d:62069**
Stark, Jaroslav Observing complexity, seeing simplicity. (English summary) **2001b:37048**
Tong, Howell *see* **Cheng, Bing, 2001d:62092**
Triandaf, Ioanna *see* **Schwartz, Ira B., (2001d:92001)**
Tsiganis, K. (*with* Anastasiadis, A.; Varvoglis, H.) Dimensionality differences between sticky and non-sticky chaotic trajectory segments in a 3D Hamiltonian system. (English summary) **2001c:37070**
Tsuneda, Akio *see* **Kohda, Tohru et al., 2001g:62050**
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Yiou, Pascal (*with* Sornette, Didier; Ghil, Michael) Data-adaptive wavelets and multi-scale singular-spectrum analysis. (English summary) **2001e:86016**

37M15 Symplectic integrators

Albu, Ion D. (*with* Opriş, Dumitru) Helmholtz type condition for mechanical integrators. (English summary) **2001e:37117**
Blanes, Sergio (*with* Casas, F.; Ros, José) Processing symplectic methods for near-integrable Hamiltonian systems. (English summary) **2001k:37131**
Budd, Chris J. (*with* Iserles, Arieh) Geometric integration: numerical solution of differential equations on manifolds. **2001b:37117**
Casas, F. *see* **Blanes, Sergio et al., 2001k:37131**
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Gans, Jason (*with* Shalloway, David) Shadow mass and the relationship between velocity and momentum in symplectic numerical integration. (English summary)
Gonzalez, Oscar Time integration and discrete Hamiltonian systems [MR 98d:58059]. (English summary) (*see* **2001b:00036**)
Hairer, Ernst (*with* Schober, C. M.) Corrigendum to: "Symplectic integrators for the Ablowitz-Ladik discrete nonlinear Schrödinger equation" [Phys. Lett. A **259** (1999), no. 2, 140–151; MR 2000e:37139] by Schober. **2001m:37176**
Iserles, Arieh *see* **Budd, Chris J., 2001b:37117**
Kane, Couro (*with* Marsden, Jerrold E.; Ortiz, Michael; West, Matthew) Variational integrators and the Newmark algorithm for conservative and dissipative mechanical systems. (English summary) **2001k:37132**
Kværnø, Anne (*with* Leimkuhler, Benedict) A time-reversible, regularized, switching integrator for the N-body problem. (English summary) **2001h:37164**
Leimkuhler, Benedict (*with* Patrick, George W.) A symplectic integrator for Riemannian manifolds [MR 97e:58086]. (English summary) (*see* **2001b:00036**)
— *see also* **Kværnø, Anne, 2001h:37164**
Li, Wang Yao (*with* Chui, Hai Ying) A symplectic multistep method for a special differential equation of the second order. (Chinese. English summary) **2001d:37151**
Marsden, Jerrold E. *see* **Kane, Couro et al., 2001k:37132**
Opriş, Dumitru *see* **Albu, Ion D., 2001e:37117**
Ortiz, Michael *see* **Kane, Couro et al., 2001k:37132**
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Rangarajan, Govindan (*with* Sachidanand, Minita) Symplectic integration using solvable maps. (English summary) **2001a:37133**
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Ascher, Uri M. (*with* Reich, Sebastian) The midpoint scheme and variants for Hamiltonian systems: advantages and pitfalls. (English summary) **2001b:65141**
Barth, Eric (*with* Leimkuhler, Benedict; Reich, Sebastian) A time-reversible variable-stepsize integrator for constrained dynamics. (English summary) **2001d:65086**
Blanes, Sergio High order numerical integrators for differential equations using composition and processing of low order methods. (English summary) **2001m:65084**
Breiter, Sławomir (*with* Buciora, Marcin) Explicit symplectic integrator for rotating satellites. (English summary) **2001m:70001**
Buciora, Marcin *see* **Breiter, Sławomir, 2001m:70001**
Chan, Robert Peng Kong (*with* Murua, Ander) Extrapolation of symplectic methods for Hamiltonian problems. (English summary) **2001h:65161**
Chin, Siu A. (*with* Kidwell, Donald W.) Higher-order force gradient symplectic algorithms. (English summary) **2001j:70002**
Chorin, Alexandre J. (*with* Kupferman, Raz; Levy, Doron) Optimal prediction for Hamiltonian partial differential equations. (English summary) **2001i:65137**
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Hairer, Ernst Symmetric projection methods for differential equations on manifolds. (English summary) **2001m:65086**
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Kostelec, Peter J. *see* **Lewis, H. Ralph, (2001e:37002)**
Kupferman, Raz *see* **Chorin, Alexandre J. et al., 2001i:65137**
Leimkuhler, Benedict *see* **Barth, Eric et al., 2001d:65086**
Levy, Doron *see* **Chorin, Alexandre J. et al., 2001i:65137**
Lewis, H. Ralph (*with* Kostelec, Peter J.) Time-advance algorithms based on Hamilton's principle. (English summary) (*see* **2001e:37002**)
McLachlan, Robert I. (*with* Quispel, G. R. W.) Numerical integrators that contract volume. (English summary) **2001h:65074**
Murua, Ander *see* **Chan, Robert Peng Kong, 2001h:65161**
Qin, Meng Zhao *see* **Zhao, Ping Fu, 2001e:37094**
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Reich, Sebastian Multi-symplectic Runge-Kutta collocation methods for Hamiltonian wave equations. (English summary) **2001a:65087**
— *see also* **Ascher, Uri M., 2001b:65141** *and* **Barth, Eric et al., 2001d:65086**
Skeel, Robert D. (*with* Srinivas, K.) Nonlinear stability analysis of area-preserving integrators. (English summary) **2001c:65096**
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37M20 Computational methods for bifurcation problems

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37M25 Computational methods for ergodic theory (approximation of invariant measures, computation of Lyapunov exponents, entropy)

Aihara, Kazuyuki *see* Froyland, Gary, 2001k:37133
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Kim, Dong Han *see* Choe, Geon Ho, 2001j:11074
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Mera, M. Eugenia (*with* Morán, Manuel) Convergence of the Eckmann and Ruelle algorithm for the estimation of Liapunov exponents. (English summary) 2001a:37032
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Nakamura, Masa Aki *see* Imai, Hitoshi et al., 2001c:37095
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Stewart, David E. Towards numerically estimating Hausdorff dimensions. (English summary) 2001k:65196
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37M99 None of the above, but in this section

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37Nxx Applications

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Collier, J. D. (*with* Hooker, C. A.) Complexly organised dynamical systems. (English summary)
(Green, David G.) *see* **Complex systems, 2001c:00008**
Hooker, C. A. *see* **Collier, J. D.**

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Complex systems ★ Complex systems. **2001c:00008**

37N05 Dynamical systems in classical and celestial mechanics [See mainly 70Fxx, 70Hxx, 70Kxx]

Lacomba, Ernesto A. The concepts of potentiality and reciprocity in physics and engineering. (Spanish) (*see* **2001e:00020**)

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Arai, Takahiro *see* **Ishikawa, Shiro et al., 2001i:93005**
Bagchi, Bijan Kumar ★ Supersymmetry in quantum and classical mechanics. (English summary) **2001k:81078**
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Jackiw, Roman (*with* Polychronakos, Alexios P.) Dynamical Poincaré symmetry realized by field-dependent diffeomorphisms. (English summary) **2001m:70039**
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Koon, Wang Sang (*with* Lo, Martin W.; Marsden, Jerrold E.; Ross, Shane D.) Heteroclinic connections between periodic orbits and resonance transitions in celestial mechanics. (English summary) **2001f:70009**
Kozlov, Valeriĭ V. ★ Общая теория вихрей. (Russian. Russian summary) [General vortex theory] **2001f:37138**
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Lewis, Debra Stacked Lagrange tops [MR 99c:70010]. (English summary) (*see* **2001b:00036**)
Lin, Huan *see* **Yim, S. C. S., 2001k:70029**
Lo, Martin W. *see* **Koon, Wang Sang et al., 2001f:70009**
Luo, Albert C. J. (*with* Han, Ray P. S.) The dynamics of stochastic and resonant layers in a periodically driven pendulum. (English summary) **2001c:70027**
Mamaev, I. S. *see* **Chernoĭvan, V. A., 2001e:70016**
Marsden, Jerrold E. *see* **Koon, Wang Sang et al., 2001f:70009**
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Oliva, Waldyr Muniz Mechanics on Riemannian manifolds. **2001m:70025**
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Posch, H. A. (*with* Thirring, Walter E.) The classical three-body problem—where is abstract mathematics, physical intuition, computational physics most powerful? (English summary) **2001h:70018b**
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Schwind, W. J. (*with* Koditschek, D. E.) Approximating the stance map of a 2-DOF monoped runner. (English summary) **2001h:70029**
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Tanikawa, Kiyotaka (*with* Mikkola, Seppo) One-dimensional three-body problem via symbolic dynamics. (English summary) **2001h:70019**
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Yim, S. C. S. (*with* Lin, Huan) Unified analysis of complex nonlinear motions via densities. (English summary) **2001k:70029**

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37N10 Dynamical systems in fluid mechanics, oceanography and meteorology [See mainly 76–XX, especially 76D05, 76F20, 86A05, 86A10]

Antonsen, Thomas M., Jr. *see* **Hendrey, Matthew et al., 2001h:37166**
Armbruster, Dieter (*with* Oprea, Iuliana) Dynamical systems and the kinematic dynamo. (English summary) **2001d:37154**
Bekki, Naoaki Torus knot in a dissipative fifth-order system. (English summary) **2001b:37124**
Demidov, A. S. *see* **Vasil'eva, O. A., 2001k:37134**
Hendrey, Matthew (*with* Ott, Edward; Antonsen, Thomas M., Jr.) Spiral wave dynamics in oscillatory inhomogeneous media. (English summary) **2001h:37166**
Kozlov, Valeriĭ V. ★ Общая теория вихрей. (Russian. Russian summary) [General vortex theory] **2001f:37138**
Kruse, Hans-Peter The Hamiltonian structure of the equations of motion of a liquid drop trapped between two plates. (English summary) **2001c:37101**
Ma, Tian (*with* Wang, Shou Hong) The geometry of the stream lines of steady states of the Navier-Stokes equations. (English summary) **2001d:37155**
Maas, Leo R. M. *see* **van der Schrier, Gerard, 2001b:37125**
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Ott, Edward *see* **Hendrey, Matthew et al., 2001h:37166**
van der Schrier, Gerard (*with* Maas, Leo R. M.) The diffusionless Lorenz equations; Shil'nikov bifurcations and reduction to an explicit map. (English summary) **2001b:37125**
Shepherd, Theodore G. *see* **Wirosoetisno, Djoko, 2001b:37126**
Vasil'eva, O. A. (*with* Demidov, A. S.) A finite-point model of the Stokes-Leibenson problem for the Hele-Shaw flow. (Russian. English and Russian summaries) **2001k:37134**
Wang, Shou Hong *see* **Ma, Tian, 2001d:37155**
Wei, Mozheng Local error growth and predictability of ensemble perturbations in chaotic dynamical systems. (English summary) (*see* **2001b:00023**)
Wirosoetisno, Djoko (*with* Shepherd, Theodore G.) Averaging, slaving and balance dynamics in a simple atmospheric model. (English summary) **2001b:37126**

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Abel, M. (*with* Biferale, L.; Cencini, M.; Falcioni, Massimo; Vergni, D.; Vulpiani, A.) Exit-times and ϵ-entropy for dynamical systems, stochastic processes, and turbulence. (English summary) **2001h:37010**
Adrover, Alessandra *see* **Cerbelli, Stefano et al., 2001i:37053**
Afendikov, Andrei (*with* Mielke, Alexander) Bifurcation of homoclinic orbits to a saddle-focus in reversible systems with SO(2)-symmetry. (English summary) **2001m:37104**
Alber, Mark S. (*with* Miller, Charles A.) Peakon solutions of the shallow water equation. (English summary) **2001i:35248**
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Ambrosi, D. Hamiltonian formulation for surface waves in a layered fluid. (English summary) **2001b:76011**
Aoki, Kenji Mathematical model of a saline oscillator. (English summary) **2001k:76050**

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37N30 Dynamical systems in numerical analysis

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39–XX Difference and functional equations

39–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Kelley, Walter G. (*with* Peterson, Allan C.) ★ Difference equations. **2001i:39001**
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39–02 Research exposition (monographs, survey articles)

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39A20 Multiplicative and other generalized difference equations, e.g. of Lyness type

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39A70 Difference operators [see also 47B39]

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39B05 General

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39B12 Iteration theory, iterative and composite equations [see also 26A18, 30D05, 37–XX]

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Craig, Maurice Lagrange interpolation and elliptic functions. **2001g:39056**
Derfel, Gregory (*with* Vogl, Fritz) Divide-and-conquer recurrences—classification of asymptotics. (English summary) **2001k:39039**
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Neamţu, Nicolae N. A functional definition of trigonometric functions. (English summary) **2001m:39068**
— A qualitative study of Lobachevsky's complex functional equation. (English summary) **2001m:39069**
Piejko, Krzysztof Note on Robinson's functional equation. (English summary) **2001a:39056**
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Poulsen, Thomas A. (*with* Stetkær, Henrik) On the trigonometric subtraction and addition formulas. (English summary) **2001f:39029**
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39B42 Matrix and operator equations [see also 47Jxx]

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Wang, Tingxiu Bounded solutions and periodic solutions of integral equations. (English summary) **2001b:45035**
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39B52 Equations for functions with more general domains and/or ranges

Alsina, Claudi On the functional equation of the bisectrix transform. (English summary) **2001h:39029**
Badora, Roman On the stability of a functional equation for generalized trigonometric functions. (English summary) (*see* **2001e:39002**)
Bae, Jae-Hyeong On the stability of 3-dimensional quadratic functional equation. (English summary) **2001k:39040**
Brzdęk, Janusz Bounded solutions of the Gołąb-Schinzel equation. (English summary) **2001g:39058**
Choda, Hisashi *see* **Miura, Takeshi et al., (2001d:00047)**
Corduneanu, C. Neutral functional equations of Volterra type. **2001c:39048**
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Ger, Roman (*with* Kocięga, Barbara) Isometries and a generalized Cauchy equation. (English summary) **2001j:39036**
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González, Cristóbal (*with* Jiménez-Melado, Antonio) An application of Krasnoselskii fixed point theorem to the asymptotic behavior of solutions of difference equations in Banach spaces. (English summary) **2001b:39024**
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— (*with* Reich, Ludwig) Additive functions commuting with Möbius transformations and field monomorphisms. (English summary) **2001c:39050**
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Jian, Ming The stability of Jensen's functional equations of the operator functions in Hilbert spaces and its applications. (Chinese. English and Chinese summaries) **2001g:39060**
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Jung, Soon-Mo Quadratic functional equations of Pexider type. (English summary) **2001k:39042**
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39B82 Stability, separation, extension, and related topics [see also 46A22]

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Henderson, Johnny Countably many solutions for a BVP on a measure chain.
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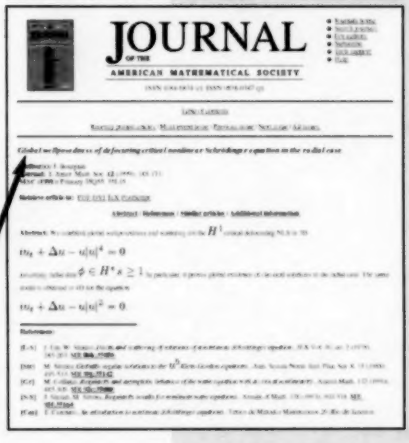
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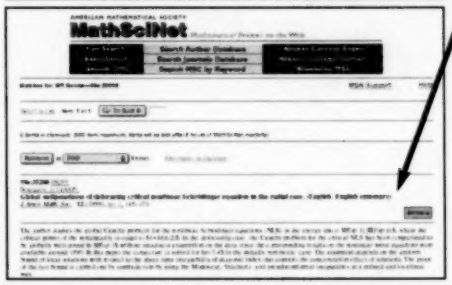
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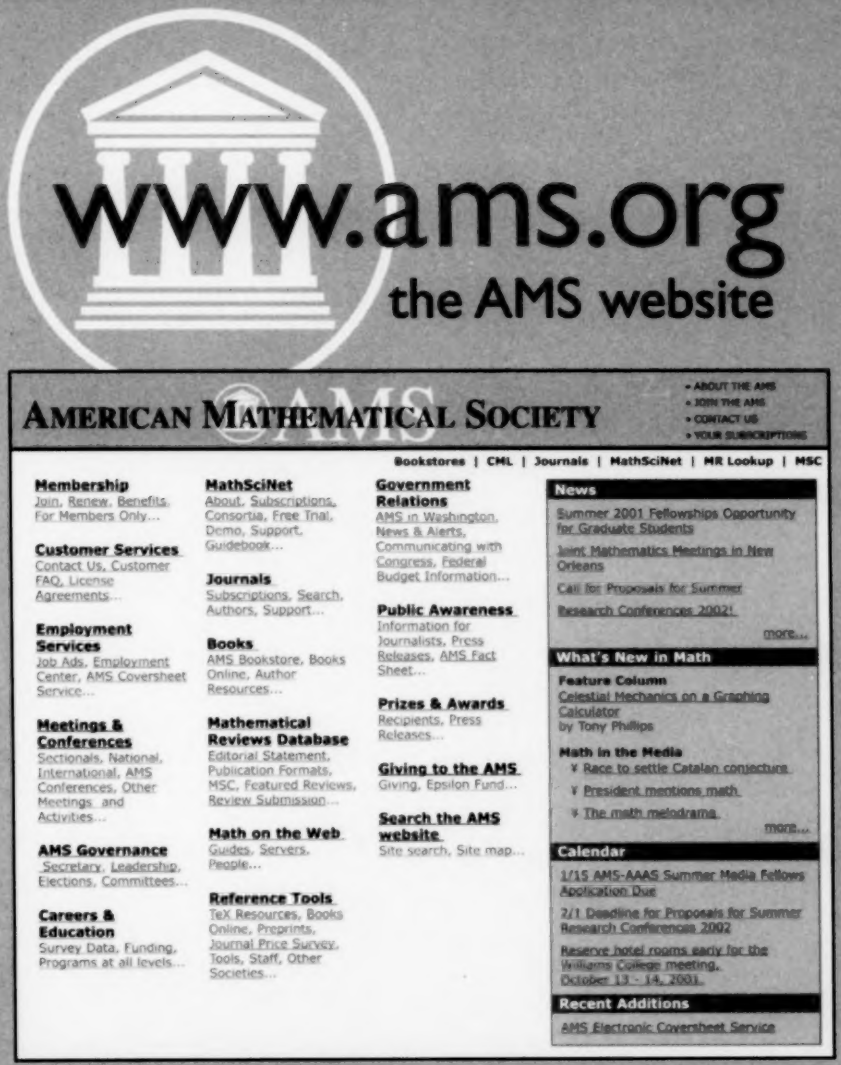
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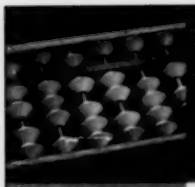
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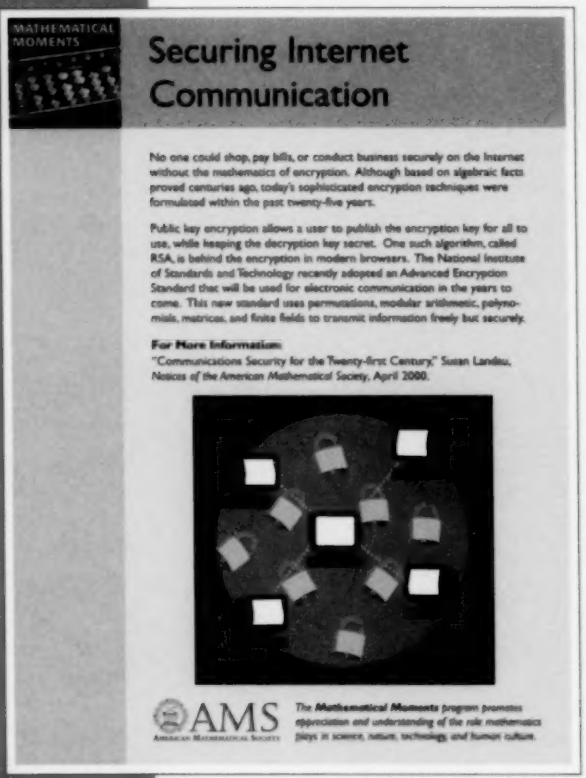
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For More Information:

"Communications Security for the Twenty-first Century," Susan Landau, *Notices of the American Mathematical Society*, April 2000.

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